

GEOLOGIC CONDITIONS

COASTAL PLAIN PROVINCE

ARTIFICIAL FILL

af Composed of heterogeneous material such as rock, unconsolidated sediment, slag, refuse and dredge spoil.

ALLUVIUM

Qal Interbedded gravel, sand, silt and clay of variable composition and sorting.

TALBOT FORMATION

Qtc Buff to orange, poorly-sorted, poorly-bedded quartz silt with kaolinitic, illitic, and montmorillonitic clays.

Qts Poorly-sorted, well-bedded medium to coarse quartz sand with silts and kaolinite.

PATAPSCO FORMATION

Kpc Clay facies, buff mottled kaolinitic clay with variable amounts of quartz sand and silt.

Kps Sand facies, well sorted medium to fine quartz sand with locally abundant gravel.

ARUNDEL FORMATION

Kac Clay facies, gray, brown, black or red kaolinitic and illitic clay with lenses of quartz sand.

PATUXENT FORMATION

Kxs Sand facies, highly vriable, interbedded sand, gravel, silt and clay with hematite or limonite cementations in place.

Kxc Clay facies, light grey to brown clay containing variable amounts of silt with local concentrations of lignitic debris.

PIEDMONT PROVINCE

ug Upland Gravel, poorly sorted fine sand to boulders commonly floating in a clay-sand mix. Deposits are common on topographies of hill tops and hillsides.

bl Bradshaw Layered Amphibolite, centimeter to meter scale layered amphibolite and hornblende quartz.

f Franklinville Gneiss, uniform medium to coarse-grained biotite, quartz and gneiss.

Pzb Baltimore Gabbro, massive hypersthene gabbro.

SYKESVILLE FORMATION

pCwb - sy Boulder Gneiss, thick-bedded, contains lenses of metamorphosed conglomerate sandstone (formerly Wissahickon Formation).

pCwl - Loch Raven Schist Schist, chiefly biotite-muscovite-plagioclase schist with garnet, stuarolite and kyanite (formerly Wissahickon Formation).

INTRUSIVE ROCK

Pzug - Pzum Undifferentiated ultramafic rocks.

BALTIMORE COMPLEX

bg Gabbro, pyroxene crystals, generally massive with wide varieties of mafic and ultramafic rocks.

bs Serpentinite

MAFIC ROCK

Xu Undifferentiated ultramafic rocks

Xpc Peters Creek Schist, chlorite-sericite schist containing interbedded quartzite.

Xgw Glennarm Wissahickon Schist, oligioclase mica schist including lenticular amphibolite bodies.

Xc Cockeysville Marble, white to bluish gray, finely to coarsely crystalline marble.

Xo Octoraro Schist, includes albite-chlorite schist, phyllite, some hornblende gneiss and granitized members.

CONESTOGA FORMATION

Occ Light-gray, thin-bedded, impure contorted limestone having shale partings.

LEDGER FORMATION

Cl Light-gray, locally mottled, massive, pure dolomite.

KINZERS FORMATION

Ck Base, dark brown shale; middle, gray and white spotted limestone; top, sandy limestone weathered to fine grained porous sandy mass.

VINTAGE FORMATION

Cv Dark gray, knotty, dolomite to marble at base.

ANTIETAM AND HARPERS FORMATION

Cah Includes Antietam Formation gray, buff-weathering quartzite and quartz schist and Harpers Formation dark-greenish-gray phyllite and schist having thin quartzite layers in descending order.

CHICKIES FORMATION

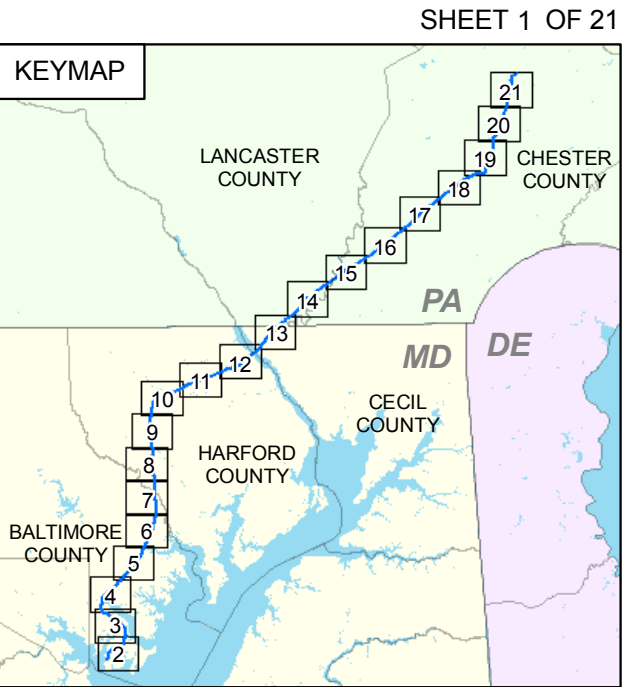
Cch Light gray, hard, massive quartzite and schist interbedded dark slate at top, conglomerate at bottom.

PRECAMBRIAN ROCK

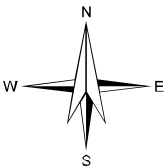
ggd Medium-grained light pink to greenish gray granodiorite and granodioritic gneiss - predominantly quartz, feldspar and mica.

gga Dark, fine to medium-grained banded mafic gneiss (likely includes rocks of sedimentary origin).

gg Includes Pickering Gneiss and small areas of marble, quartz and feldspar; small amounts of metamorphic minerals.



NOTES:



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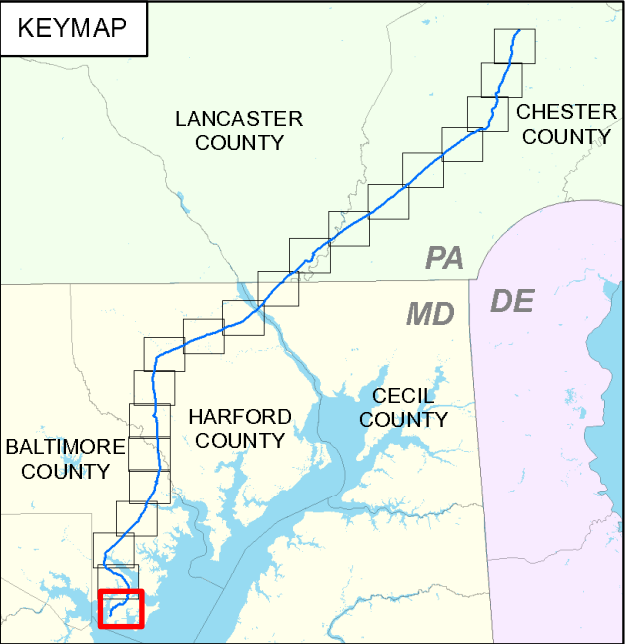
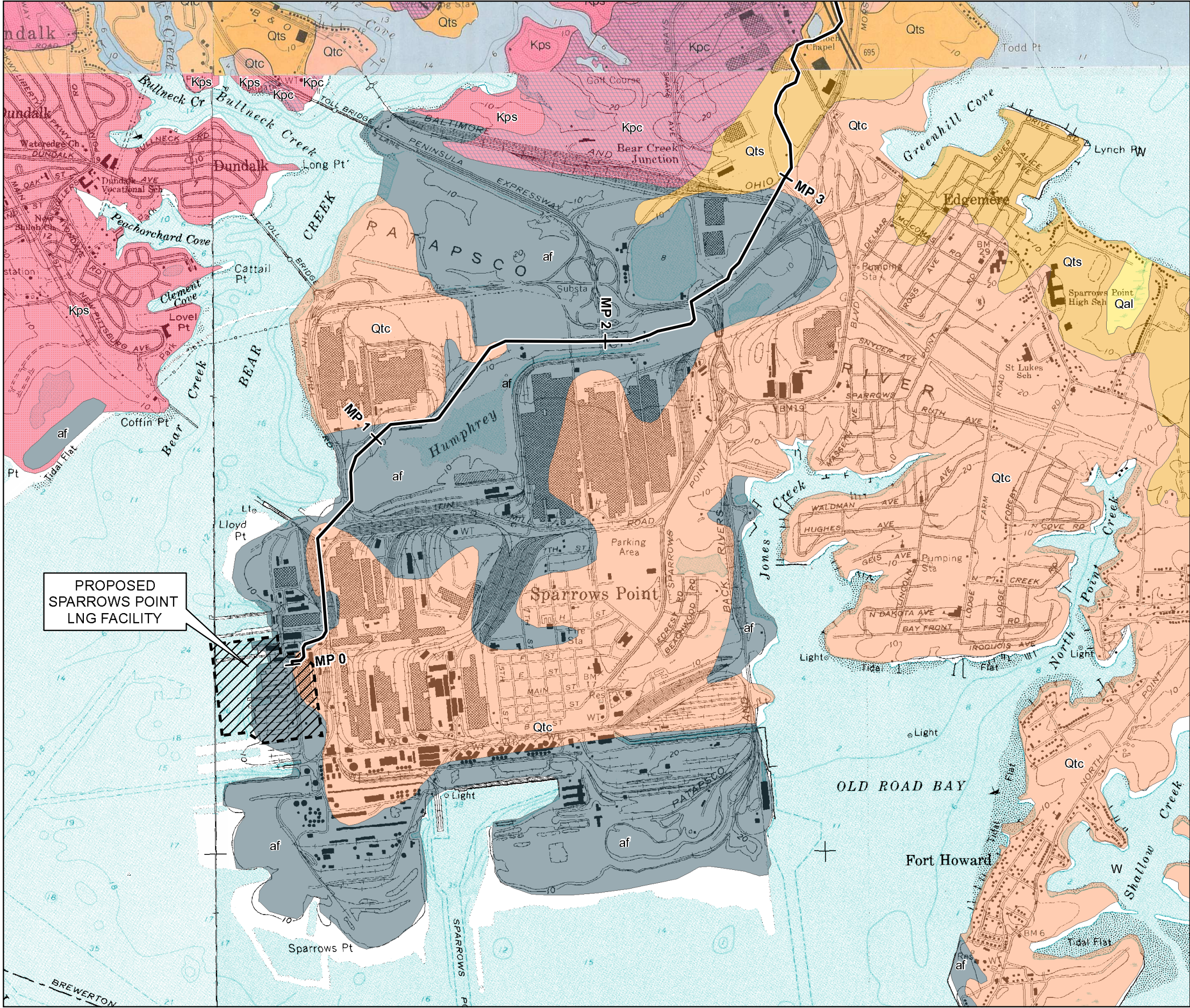
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LEGEND SHEET
GEOLOGIC CONDITIONS - MID-ATLANTIC
EXPRESS PIPELINE AND SPARROWS
POINT LNG TERMINAL

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FIGURE 6.3-1



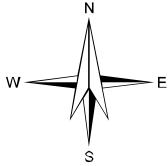
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- MID-ATLANTIC EXPRESS PIPELINE
- MILEPOST MARKER

NOTES:

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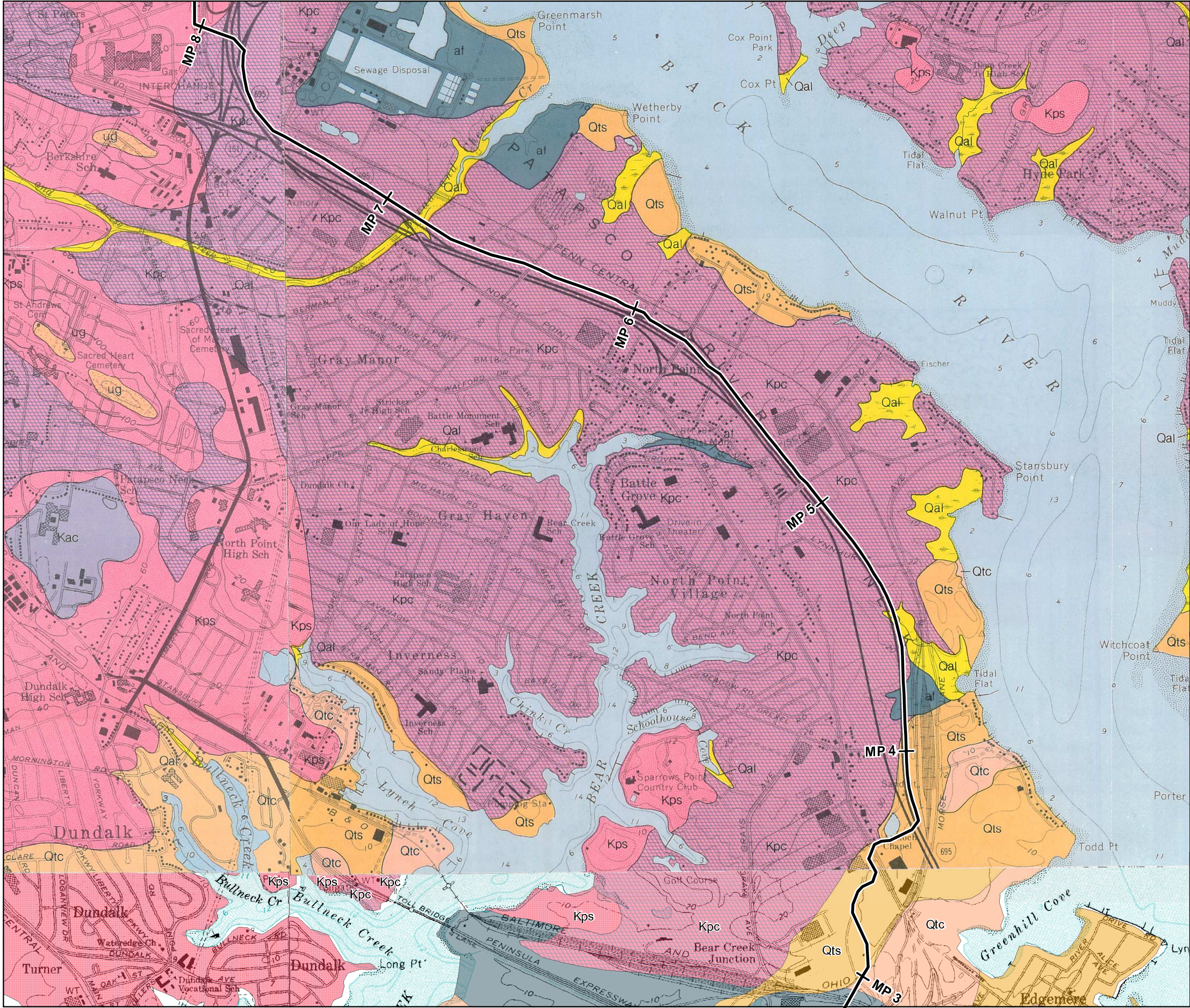
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FIGURE 6.3-1

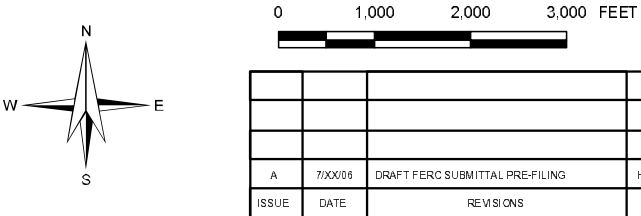


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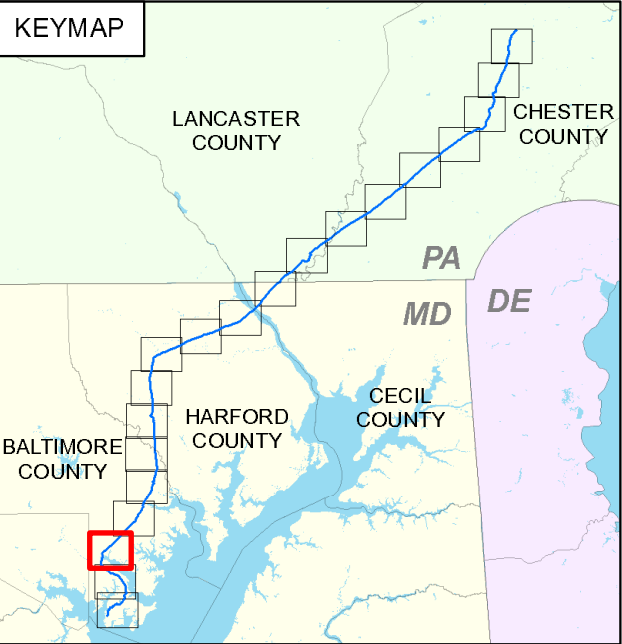
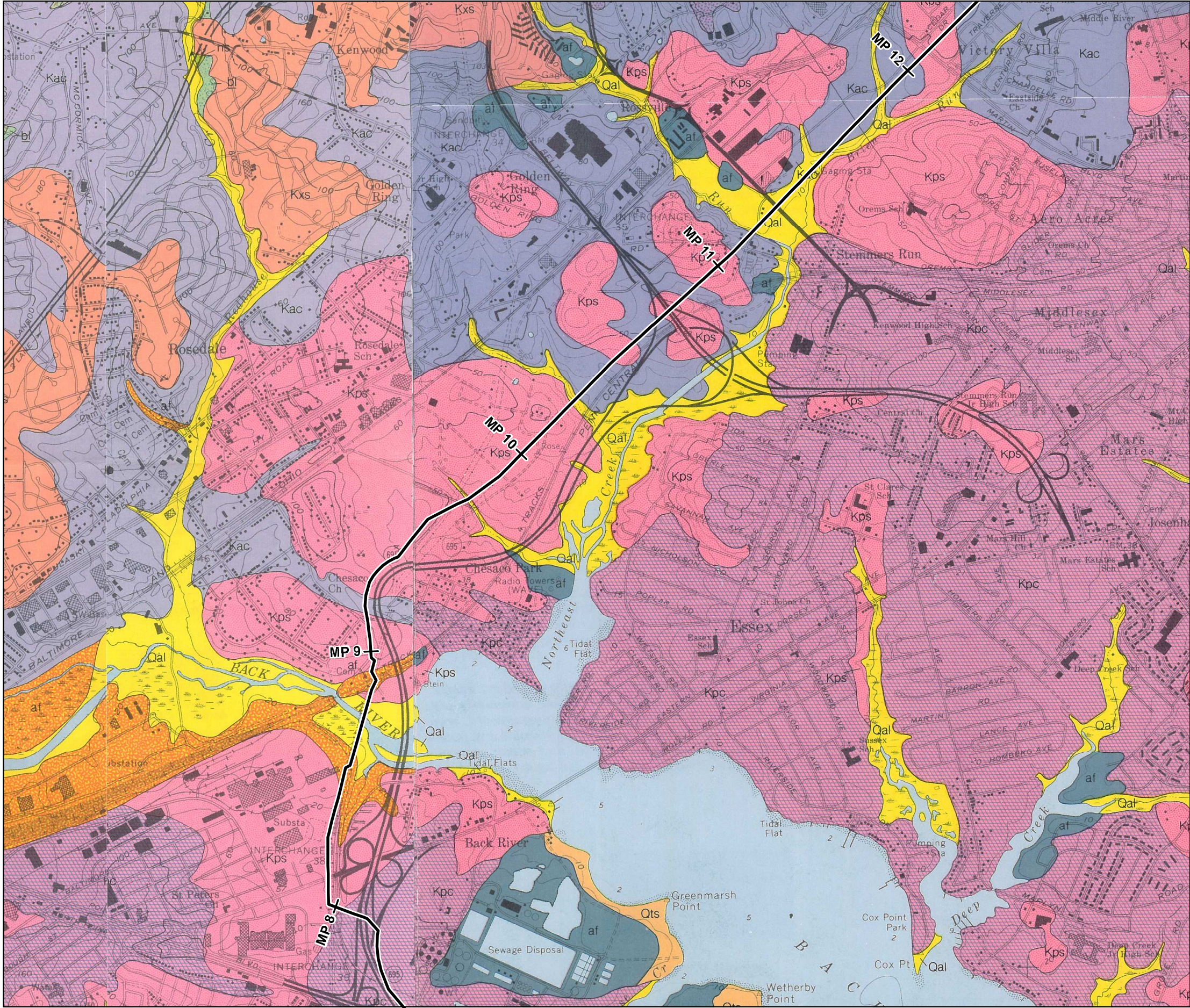
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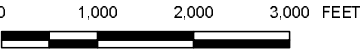
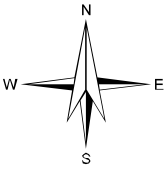


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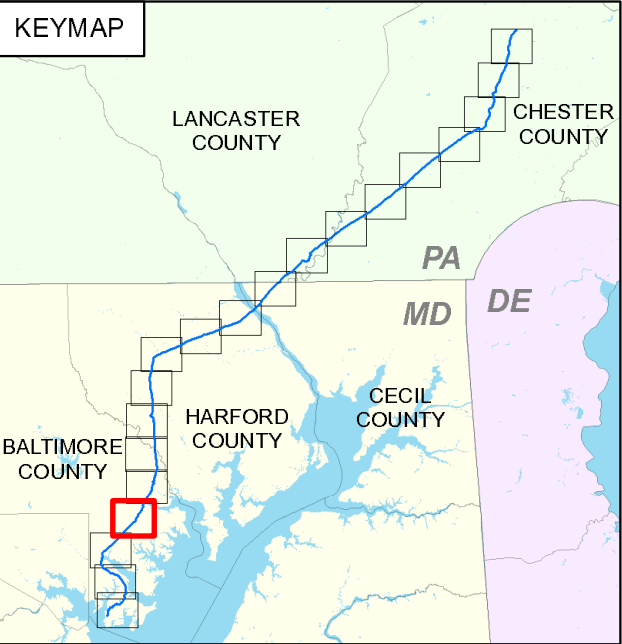
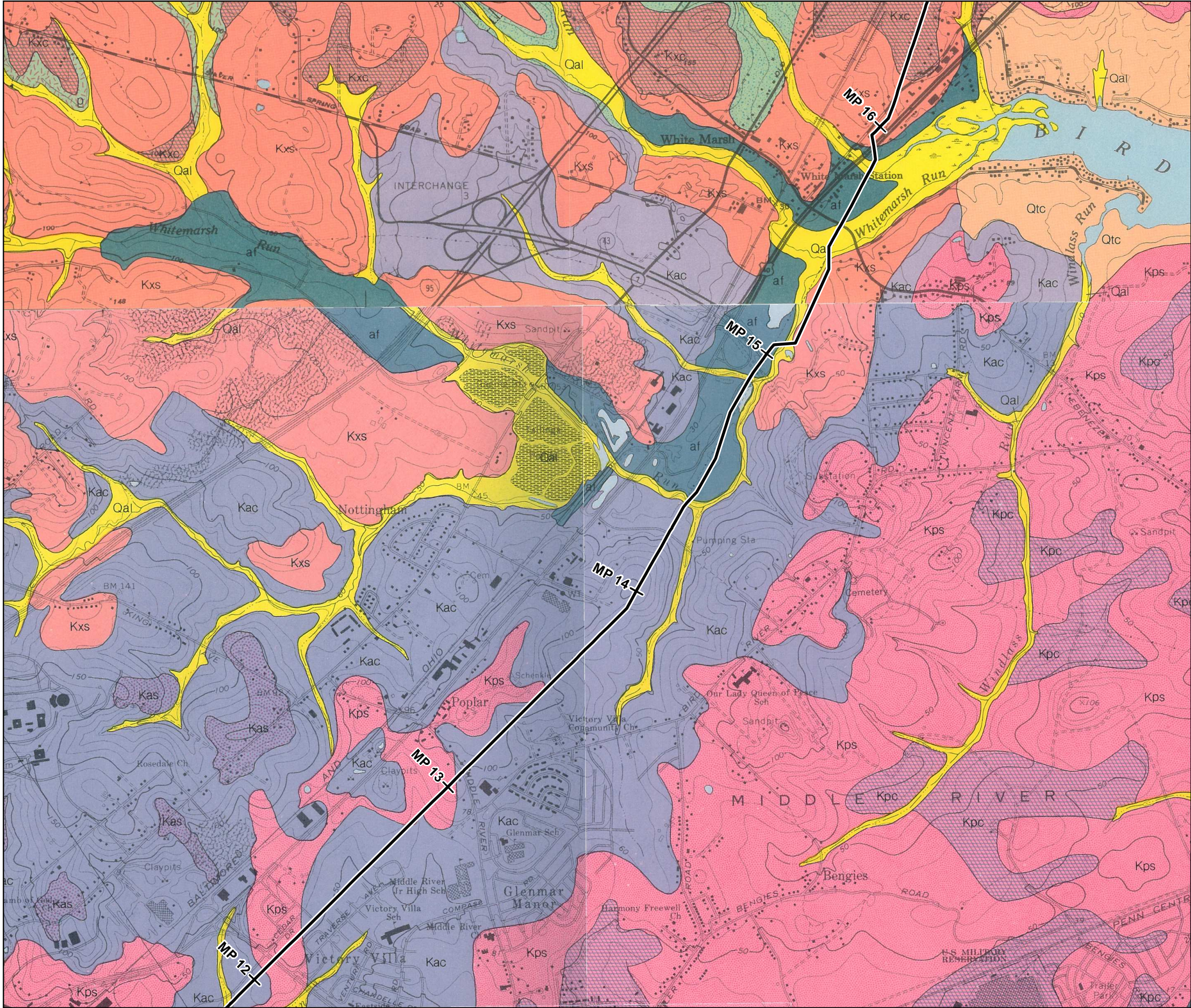
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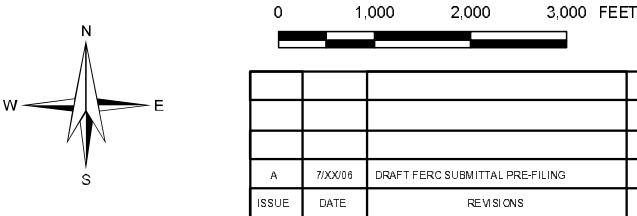


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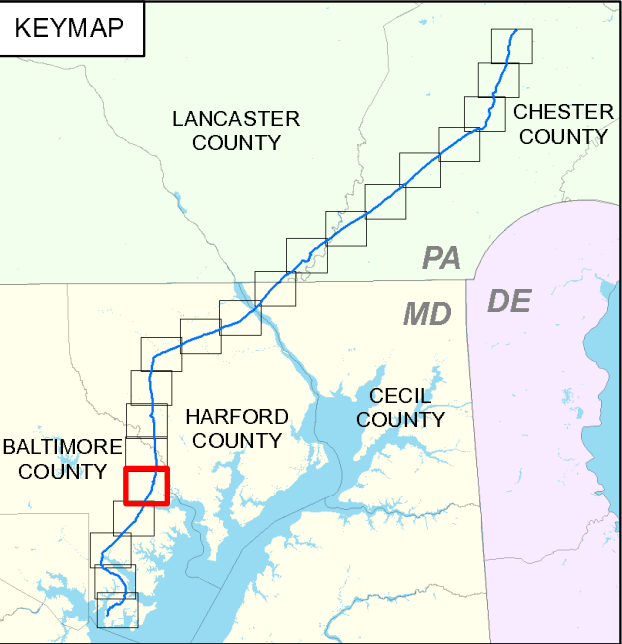
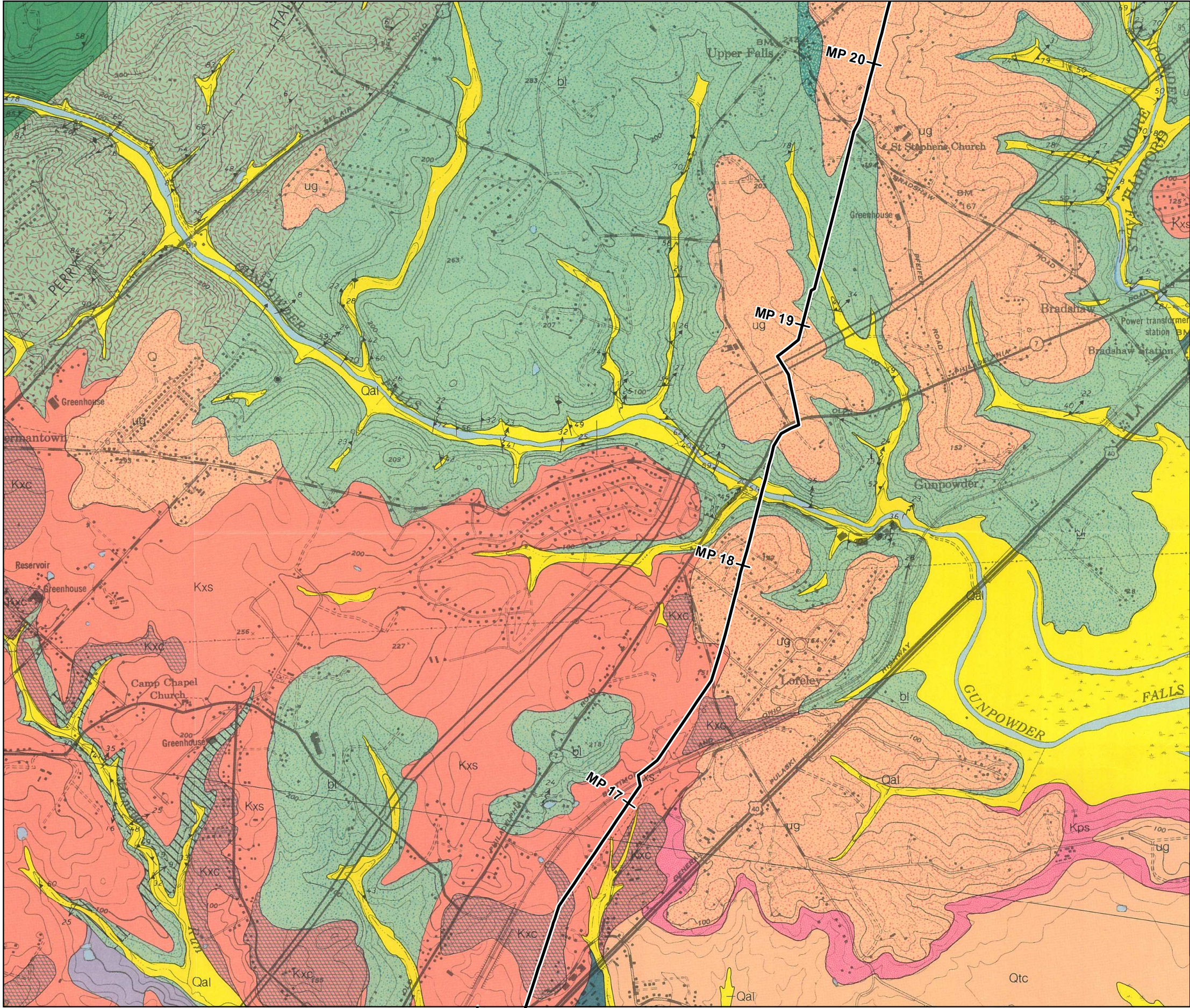
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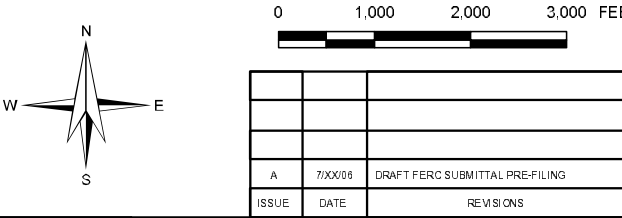
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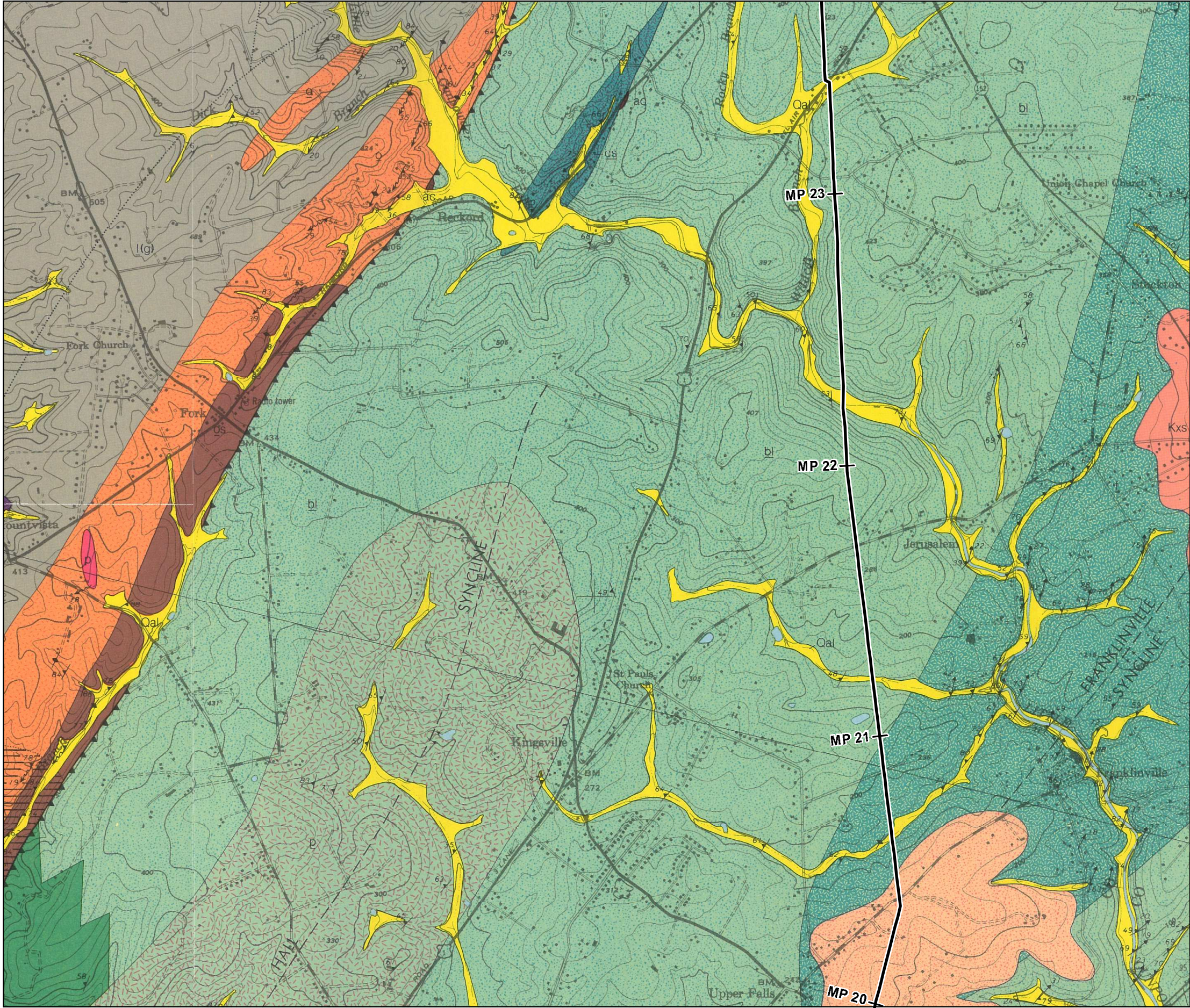
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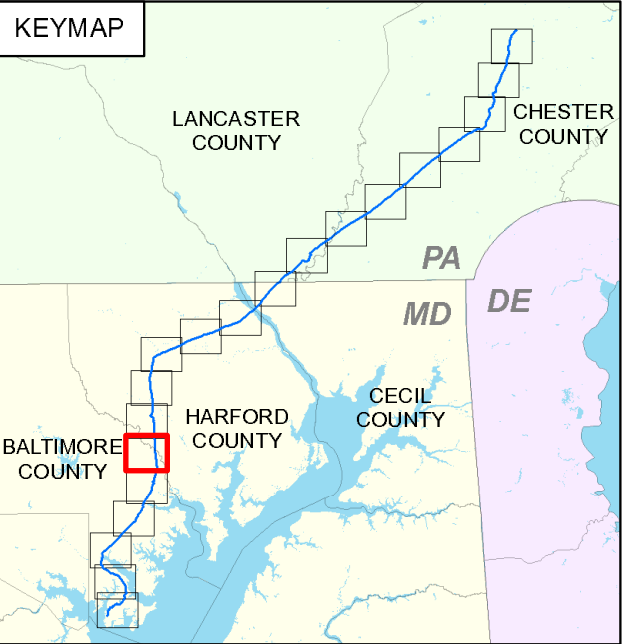
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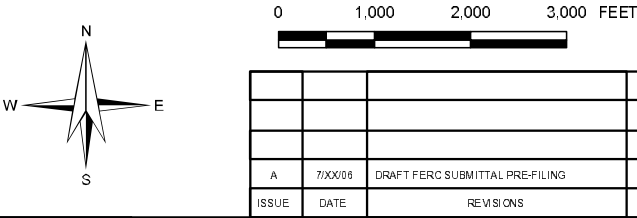
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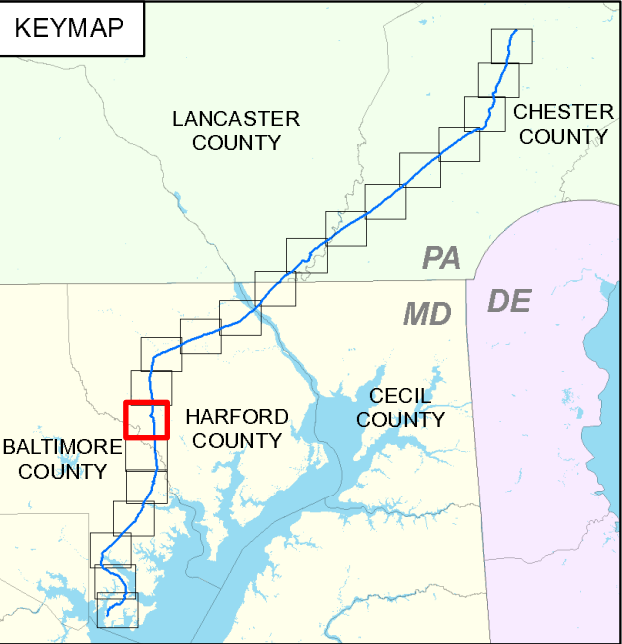
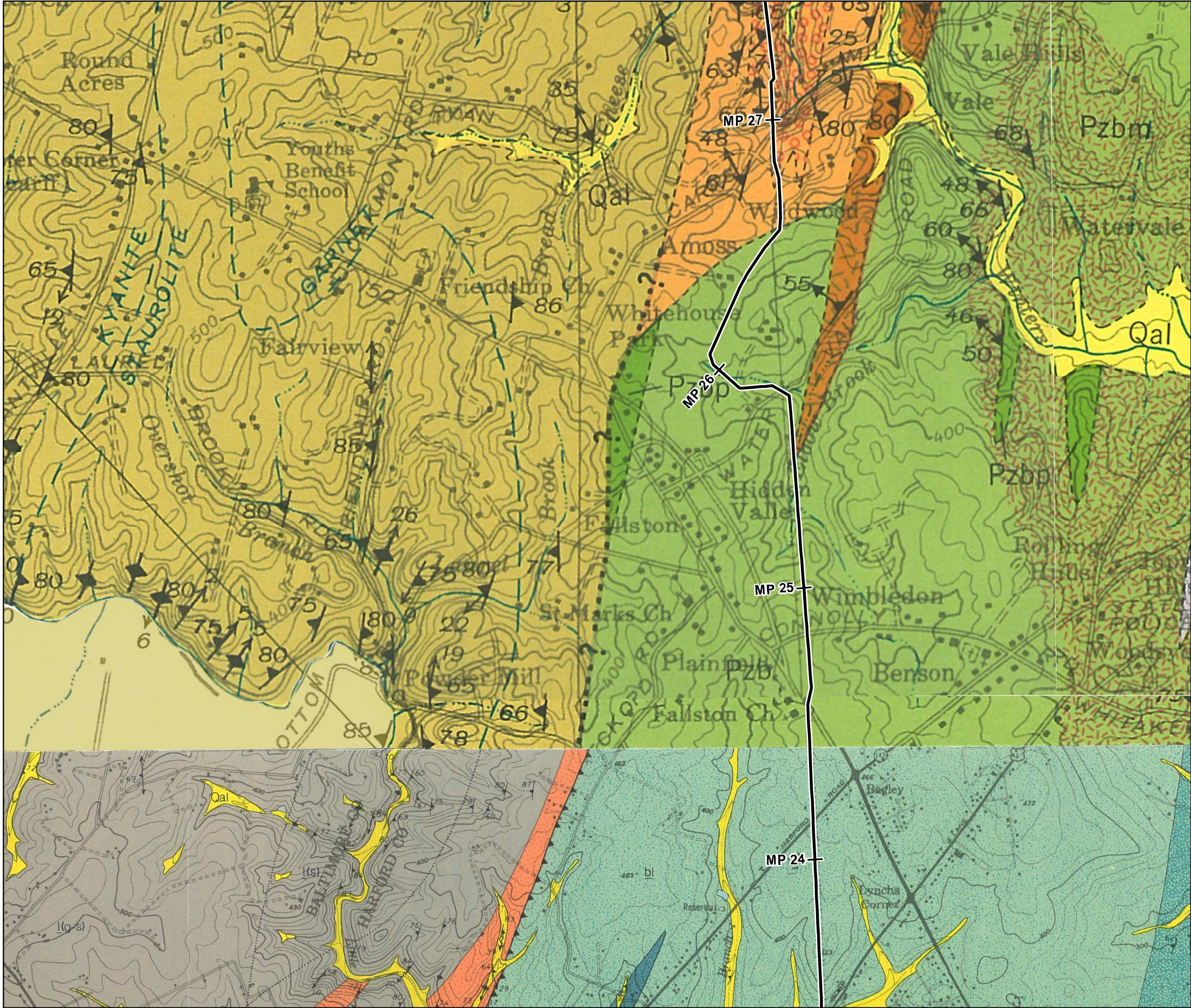
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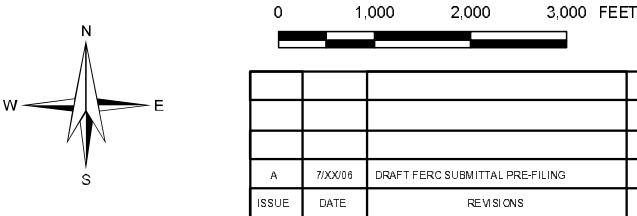


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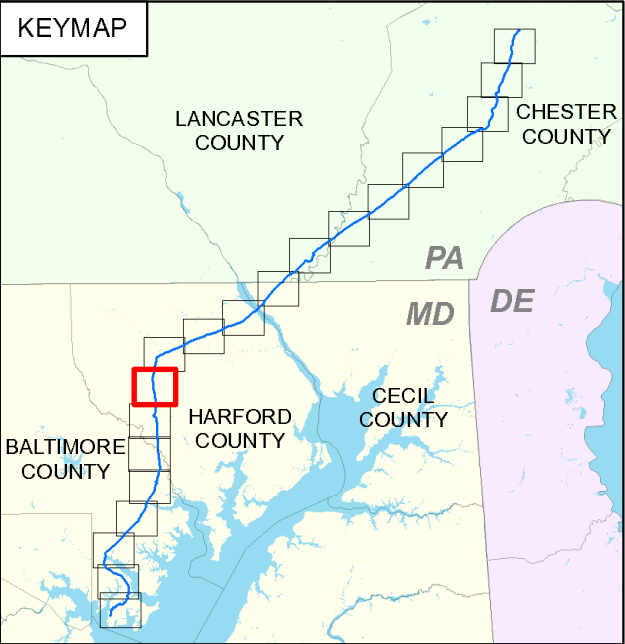
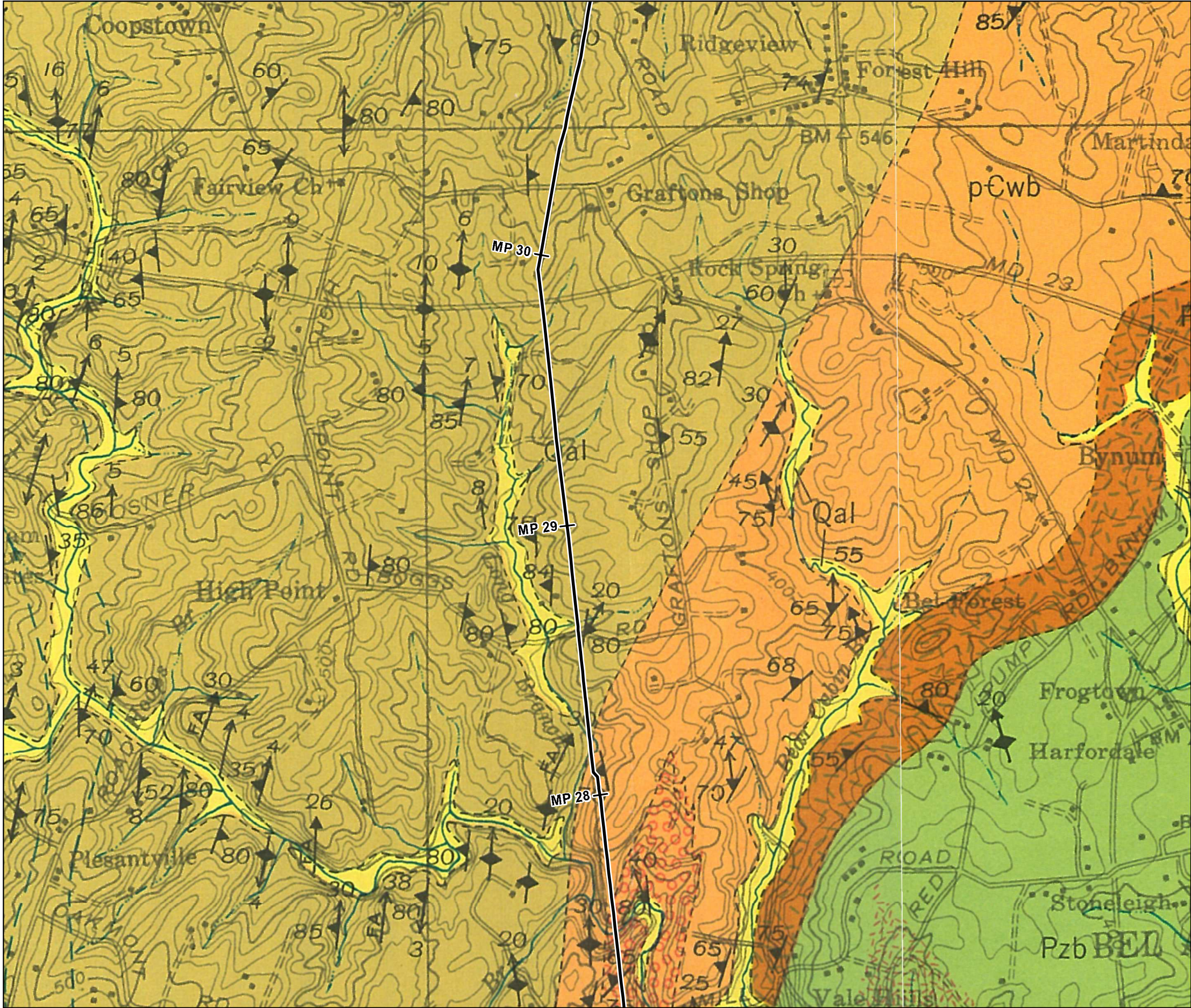
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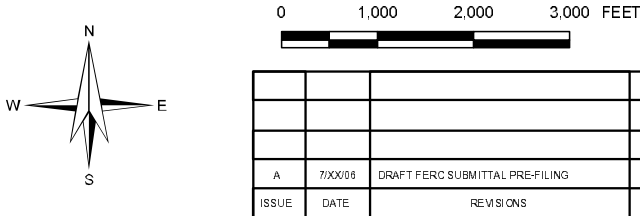
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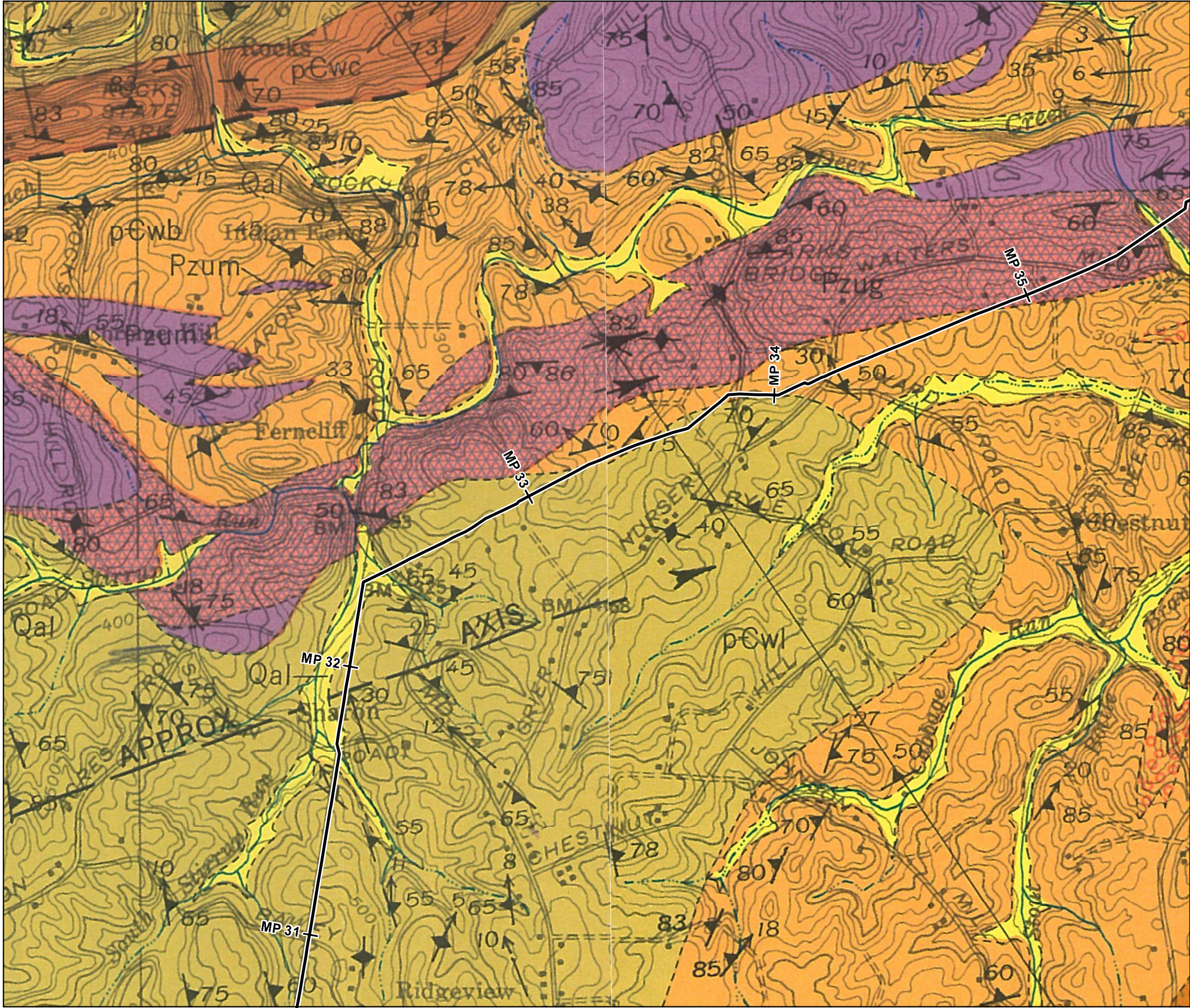
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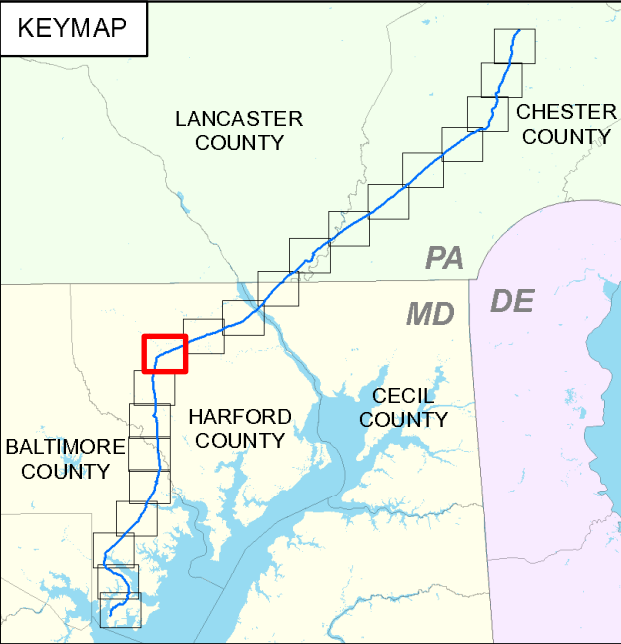
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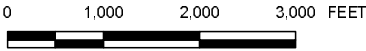
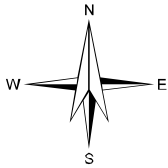


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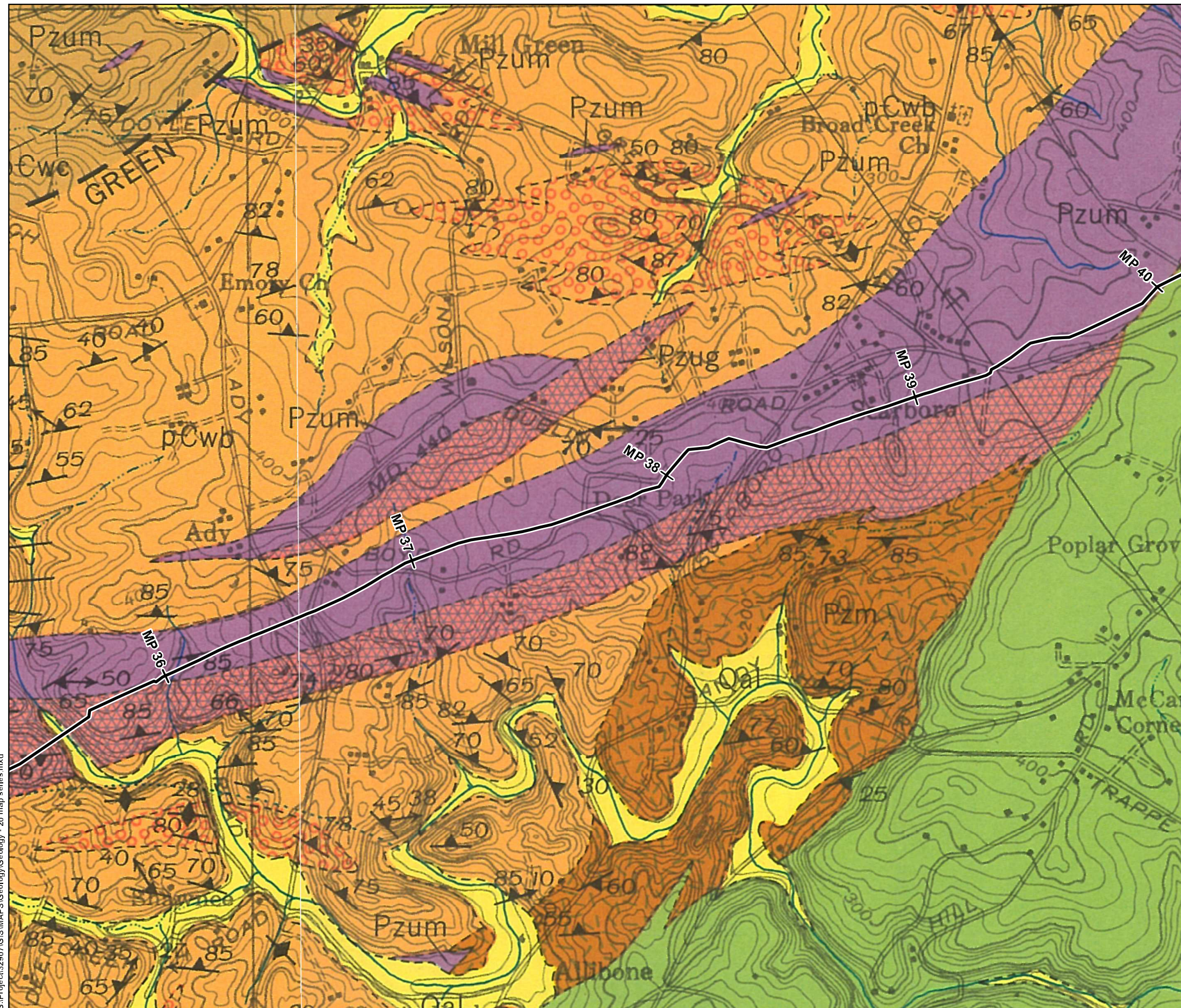
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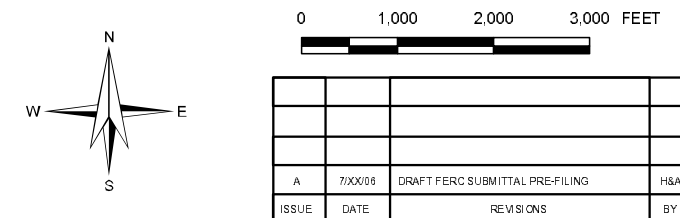
FIGURE 6.3-1



A keymap showing the location of the study area (red square) within the context of Lancaster County, PA, and surrounding areas including Chester County, PA, Harford County, MD, Cecil County, MD, and Baltimore County, MD.

— MID-ATLANTIC EXPRESS PIPELINE
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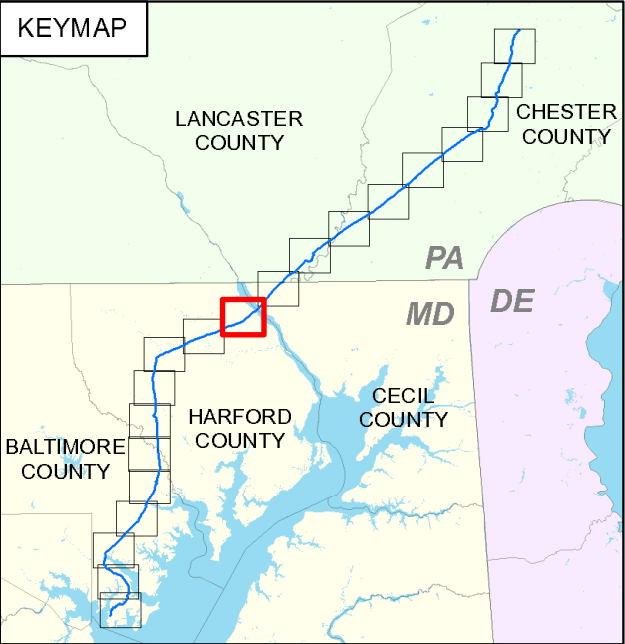
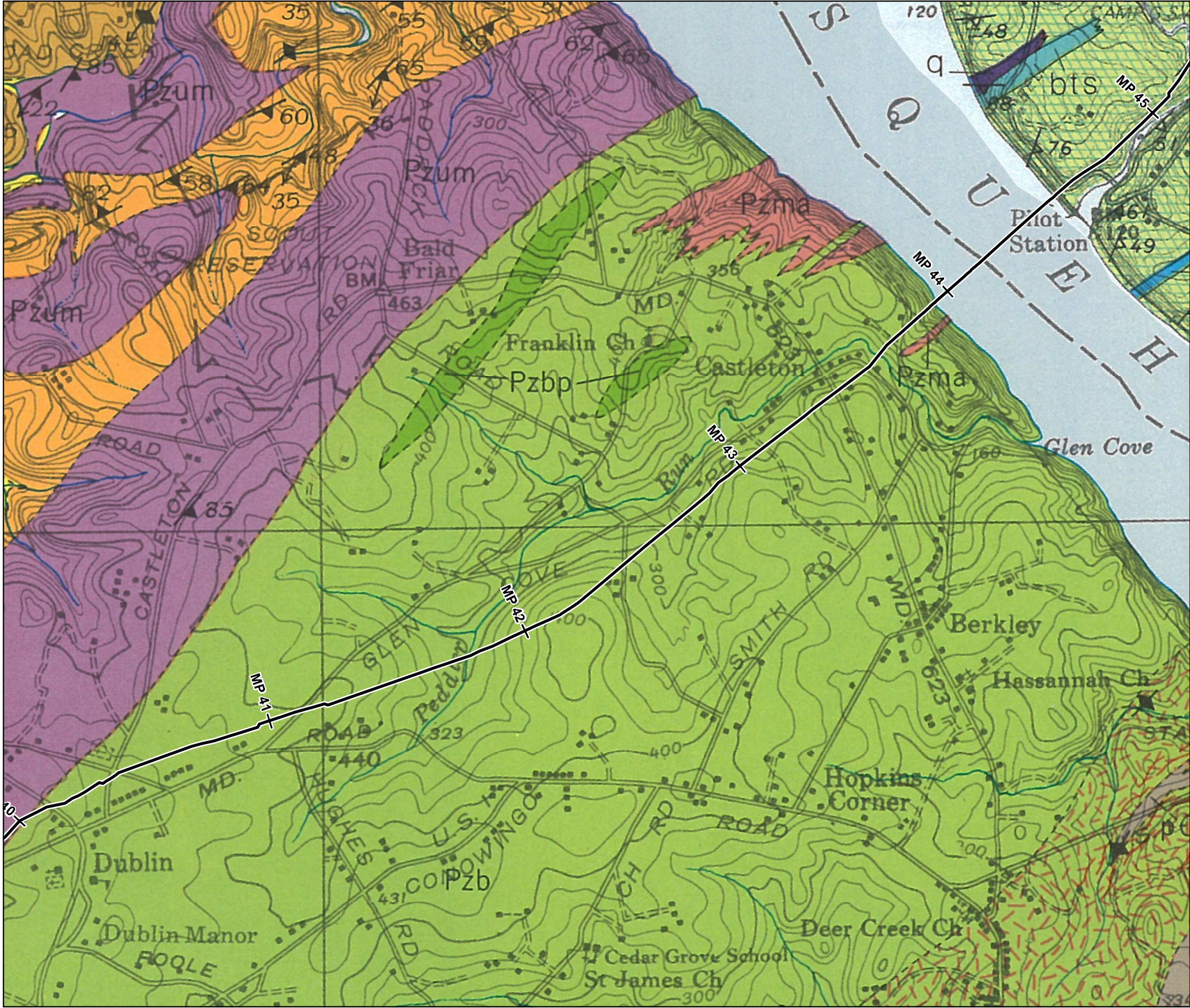
Sparrows Point LNG

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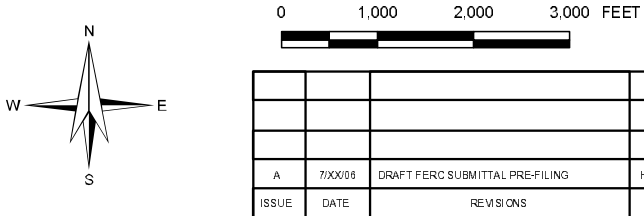
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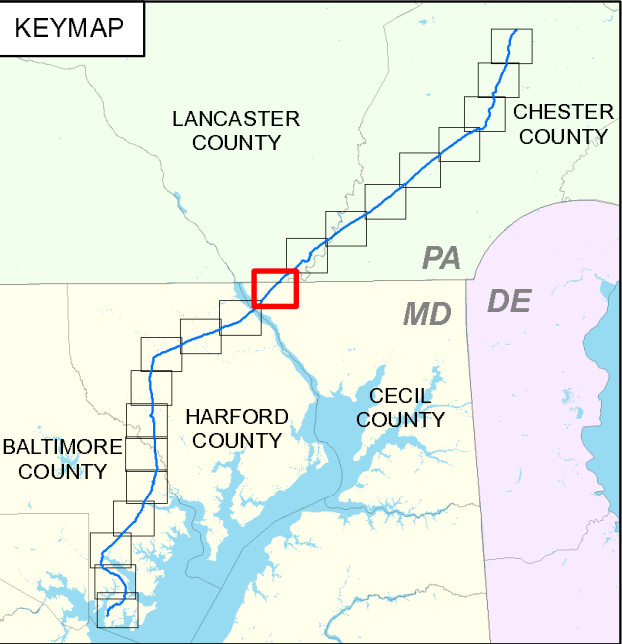
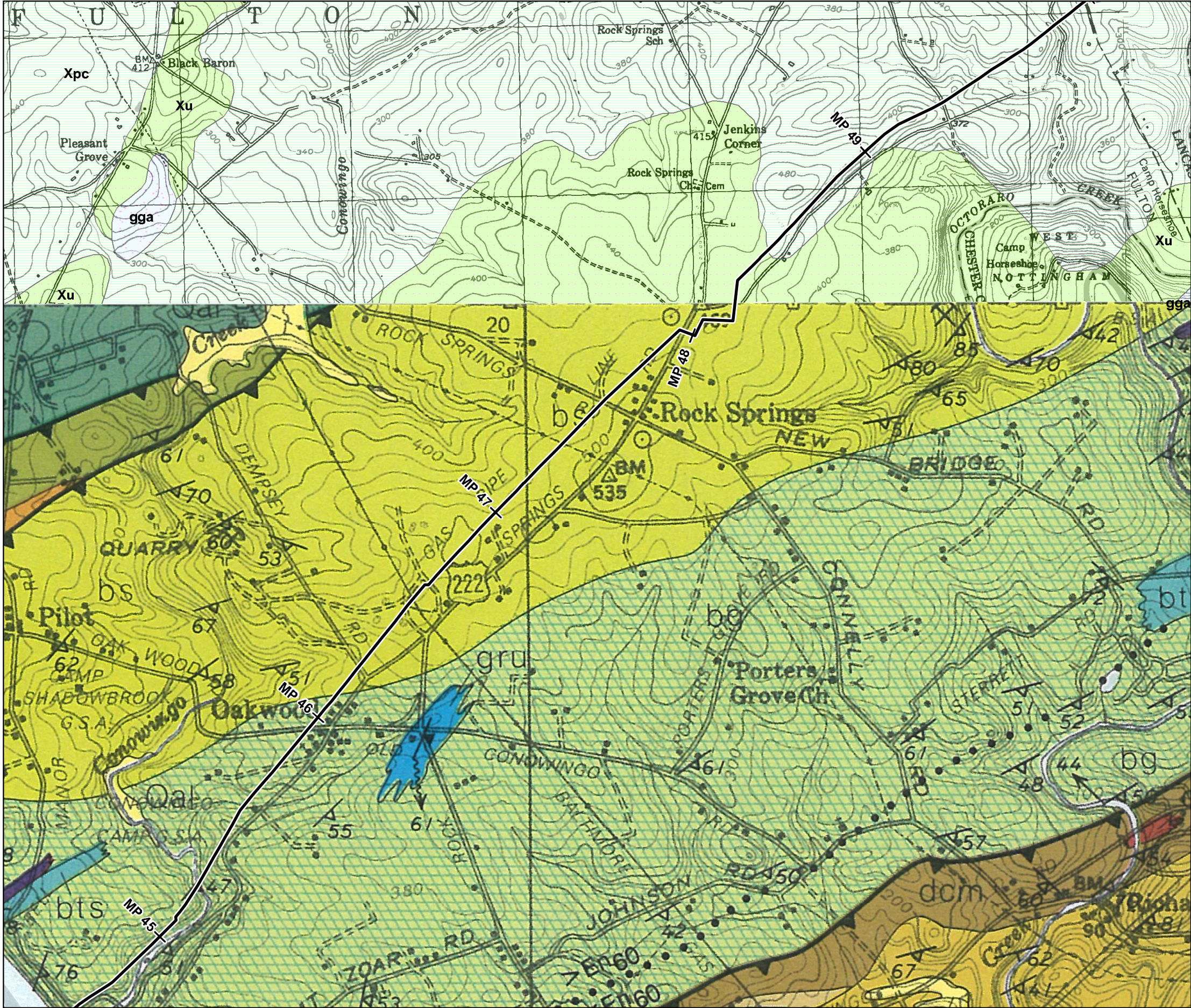
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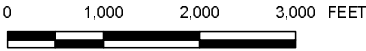
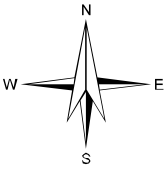


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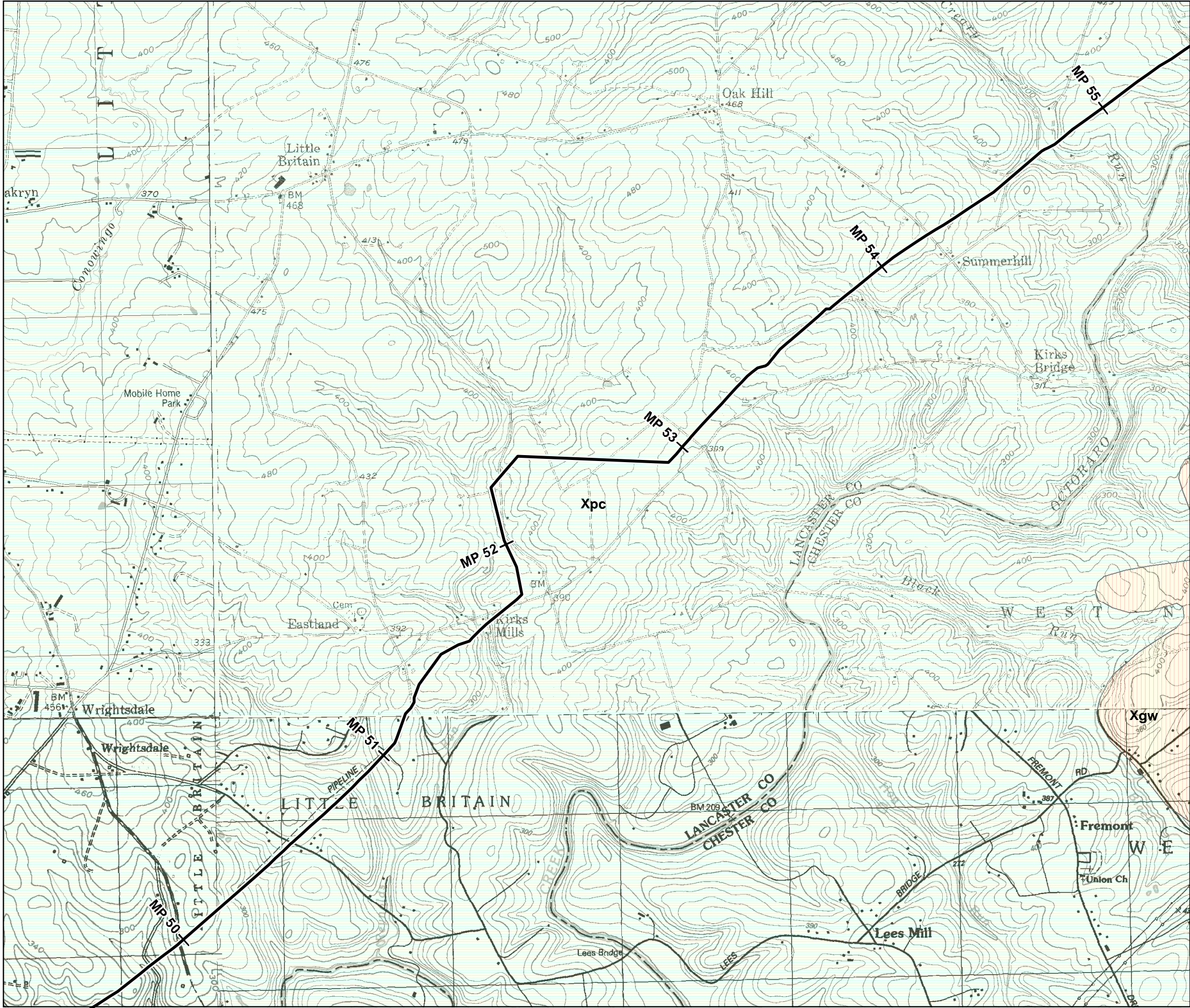
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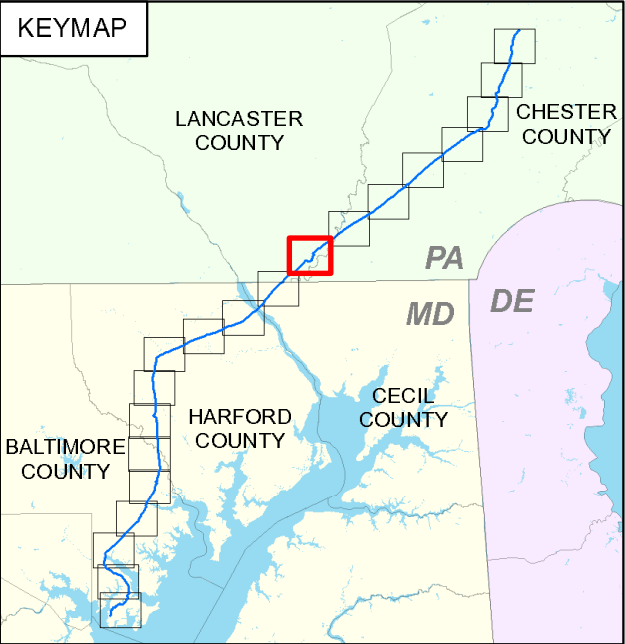
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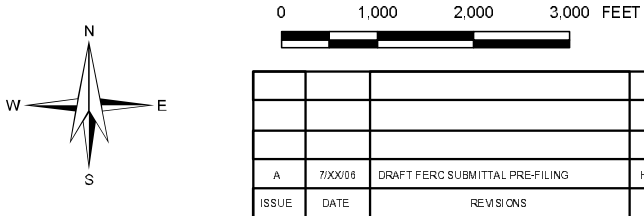
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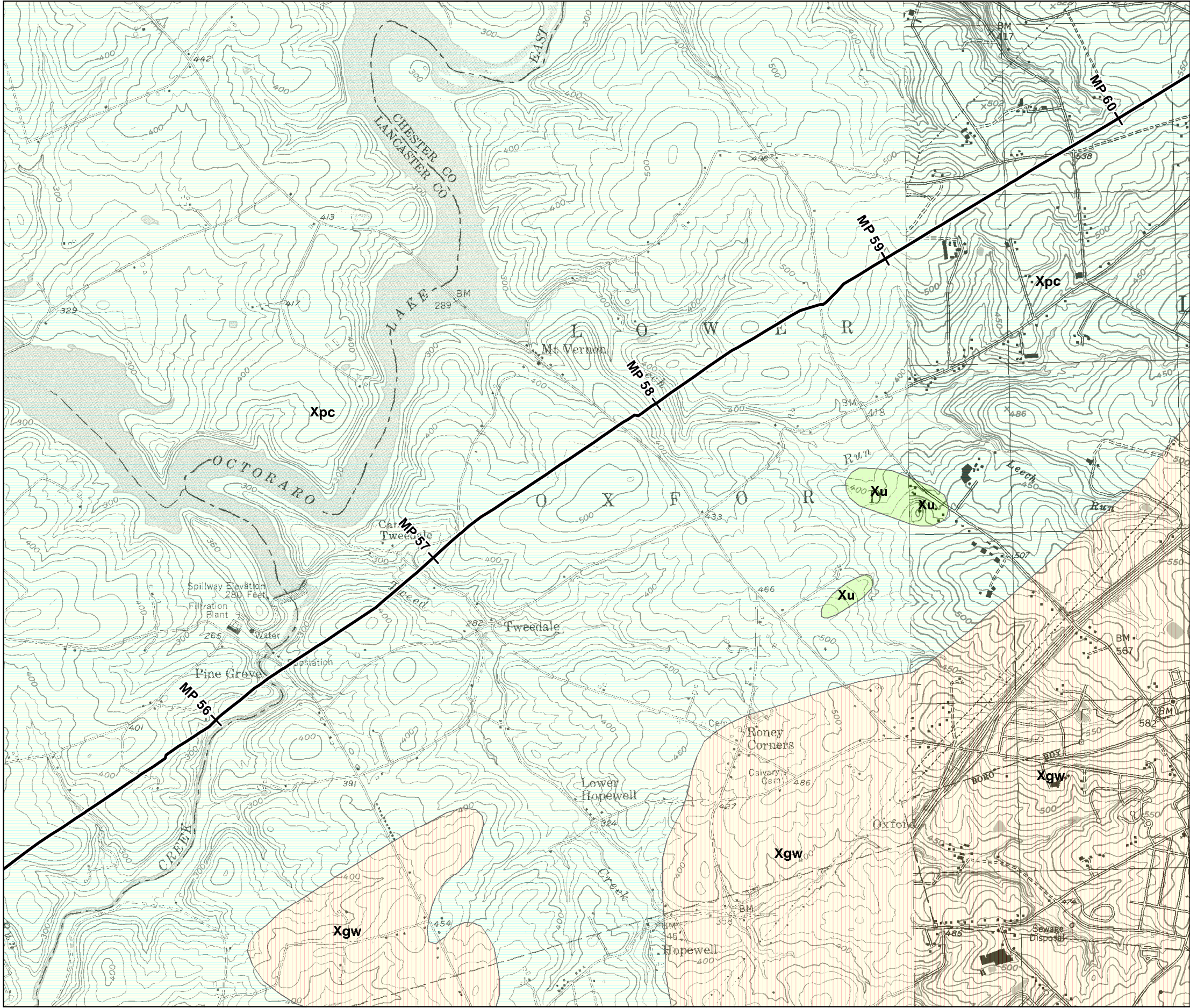
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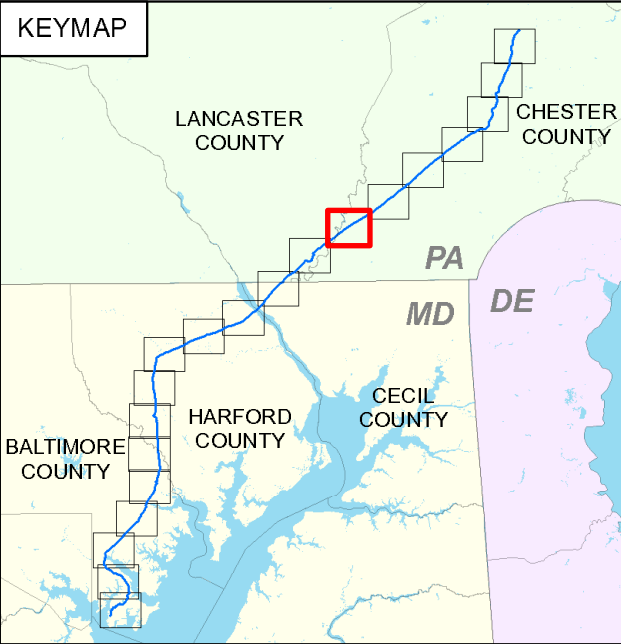
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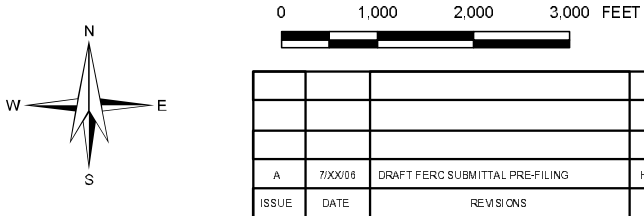
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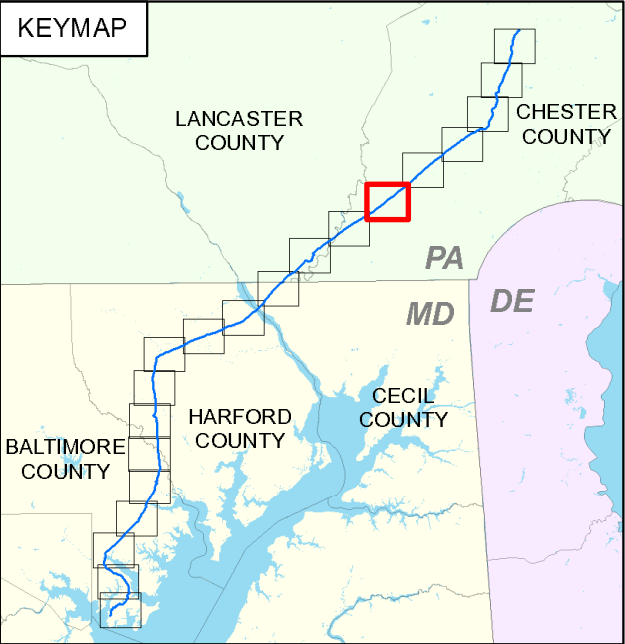
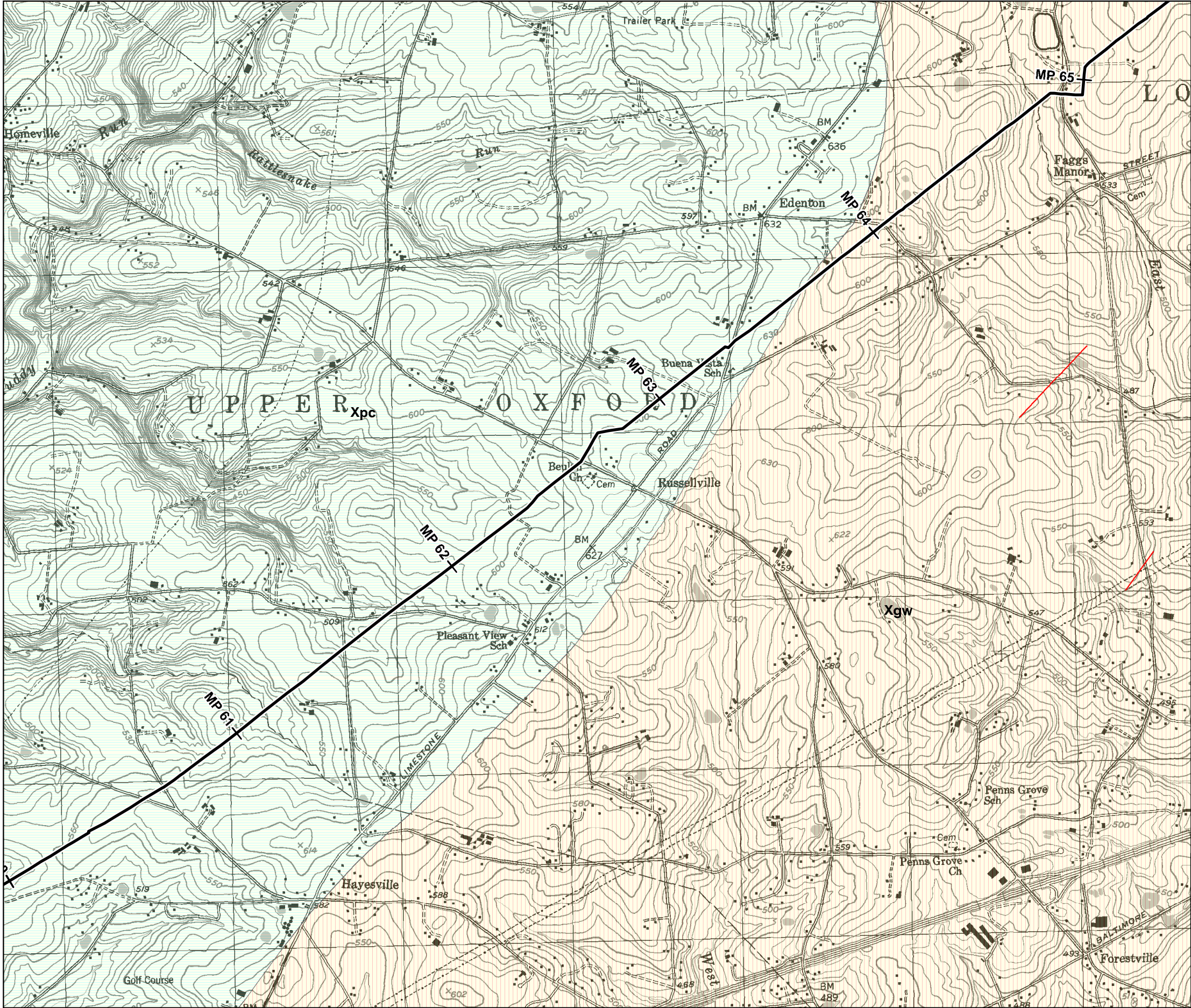
PREPARED BY:
HALEY & ALDRICH

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SPARROWS POINT LNG
BALTIMORE COUNTY, MD - CHESTER COUNTY, PA

GEOLOGIC CONDITIONS - MID-ATLANTIC
EXPRESS PIPELINE AND SPARROWS
POINT LNG TERMINAL

SCALE: AS SHOWN
JULY 2006

FIGURE 6.3-1

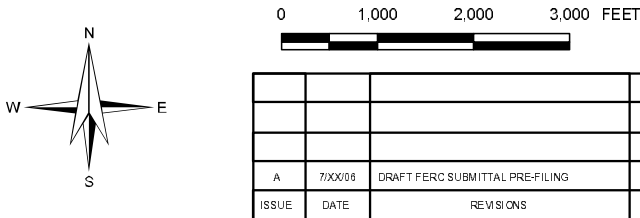


LEGEND

- MID-ATLANTIC EXPRESS PIPELINE
- MP 24 | MILEPOST MARKER

NOTES:

- 1. SEE SHEET 1 FOR LEGEND.
- 2. DATA DERIVED FROM:
GEOLOGIC MAP OF PENNSYLVANIA, BERG AND
OTHERS, 1980.



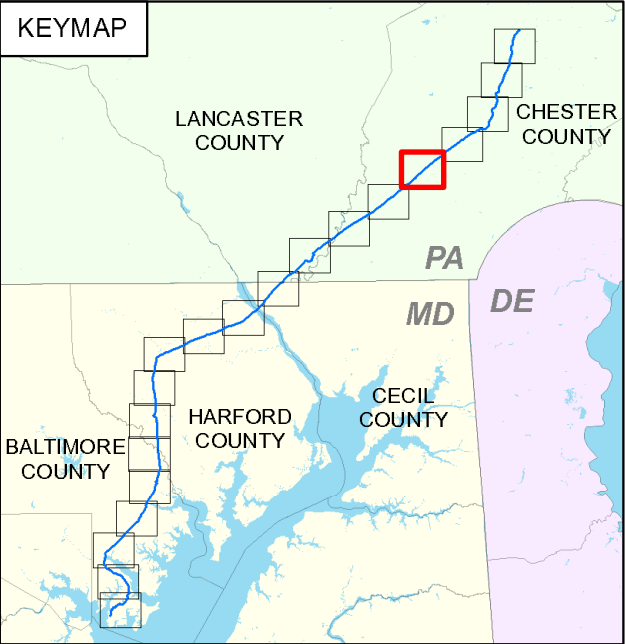
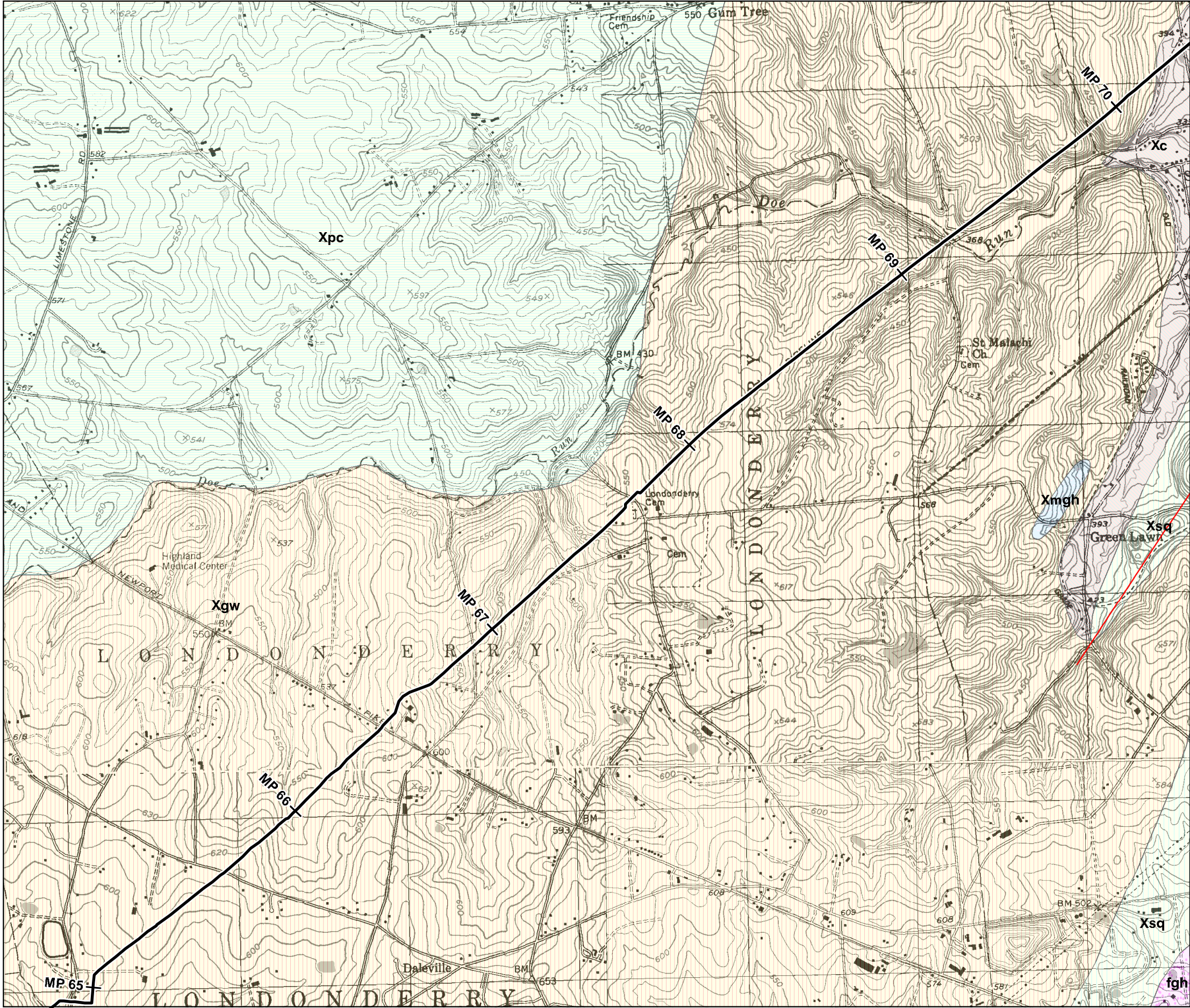
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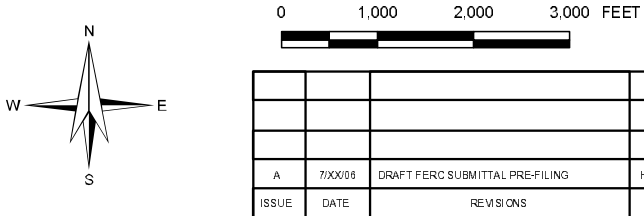
FIGURE 6.3-1



LEGEND

- MID-ATLANTIC EXPRESS PIPELINE
- MP 24 | MILEPOST MARKER

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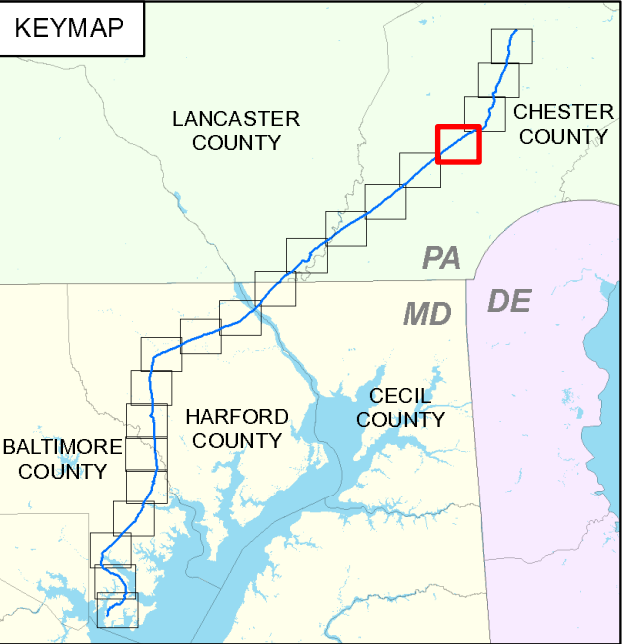
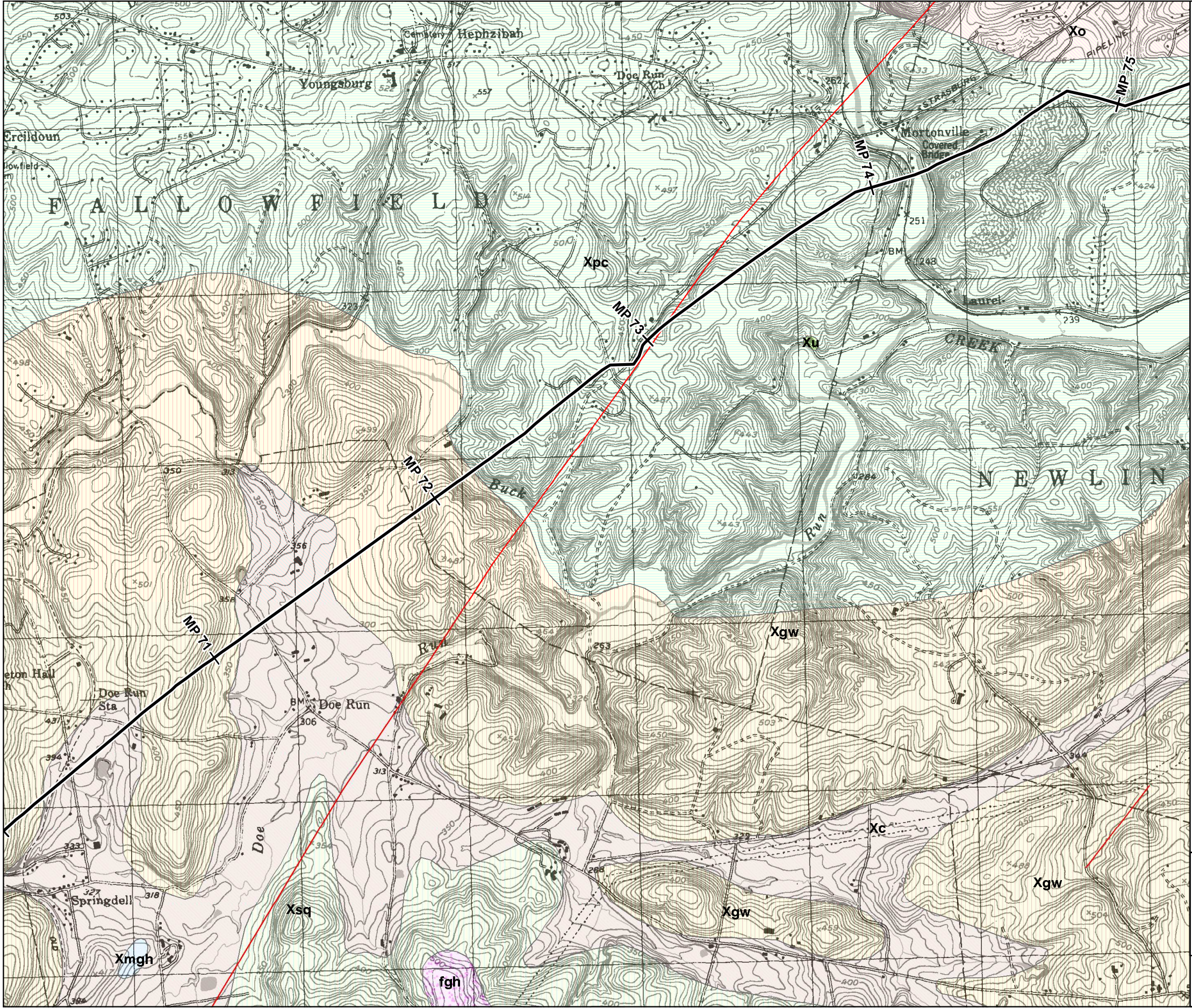
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SCALE: AS SHOWN
JULY 2006

FIGURE 6.3-1

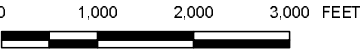
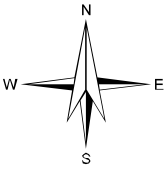


LEGEND

- MID-ATLANTIC EXPRESS PIPELINE
- MP 24 | MILEPOST MARKER

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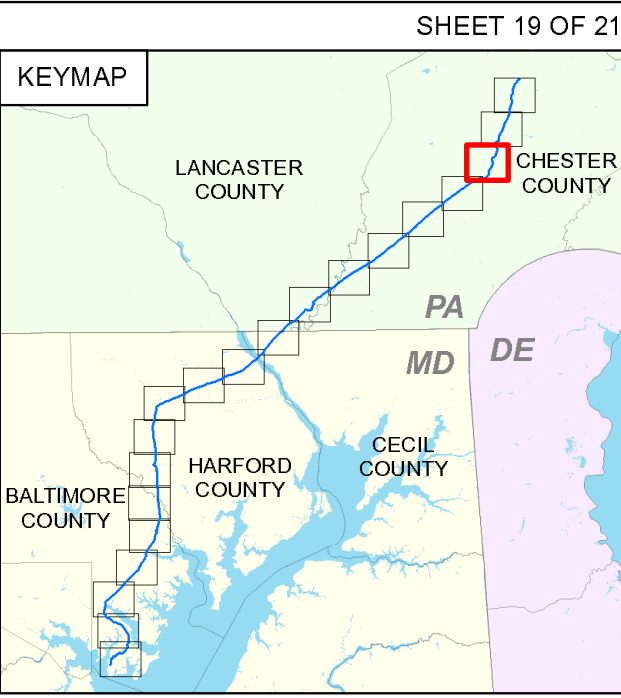
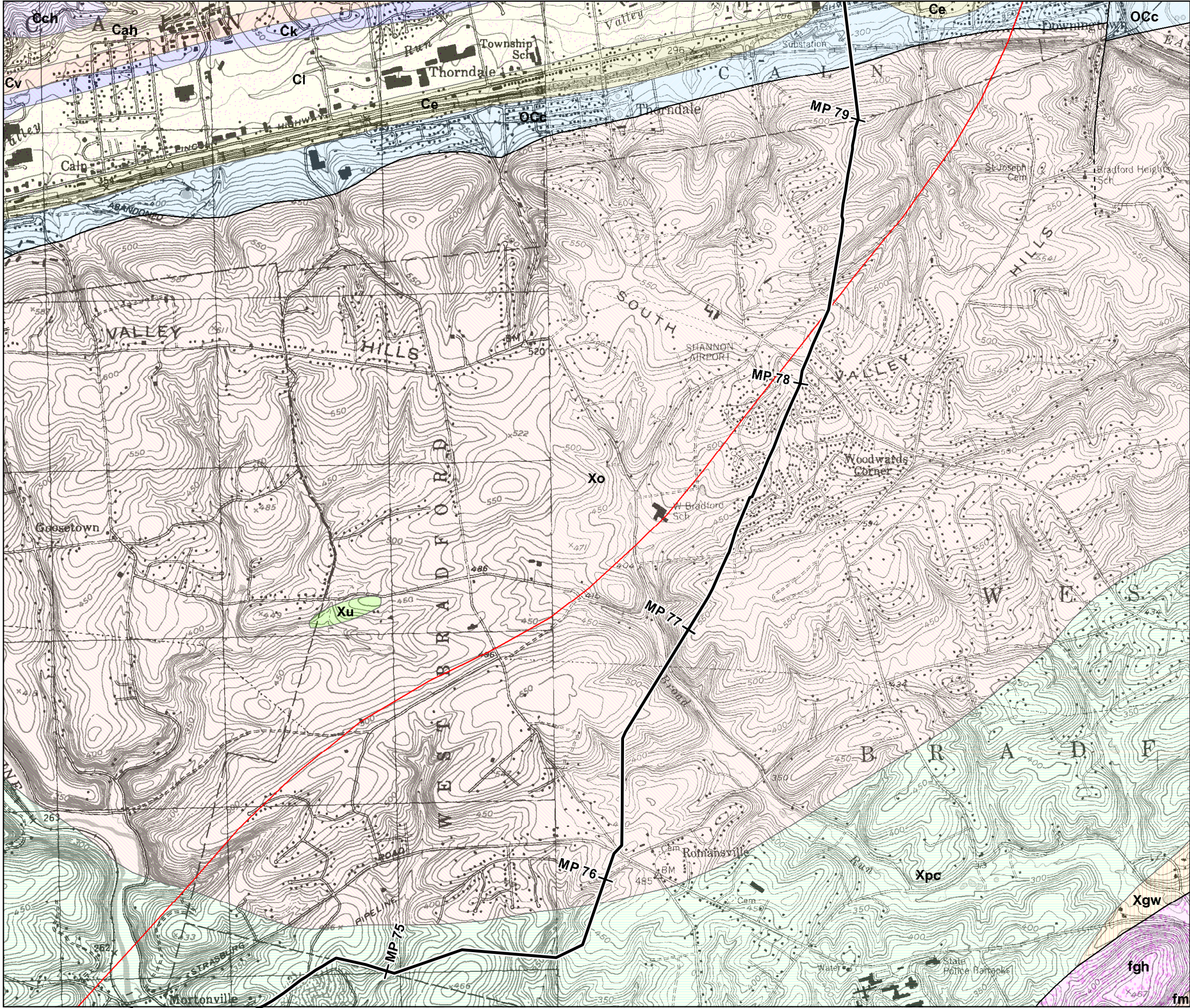
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EXPRESS PIPELINE AND SPARROWS
POINT LNG TERMINAL

SCALE: AS SHOWN
JULY 2006

FIGURE 6.3-1



LEGEND

— MID-ATLANTIC EXPRESS PIPELINE



MP 24 | MILEPOST MARKER

- NOTES:
1. SEE SHEET 1 FOR LEGEND.
 2. DATA DERIVED FROM:
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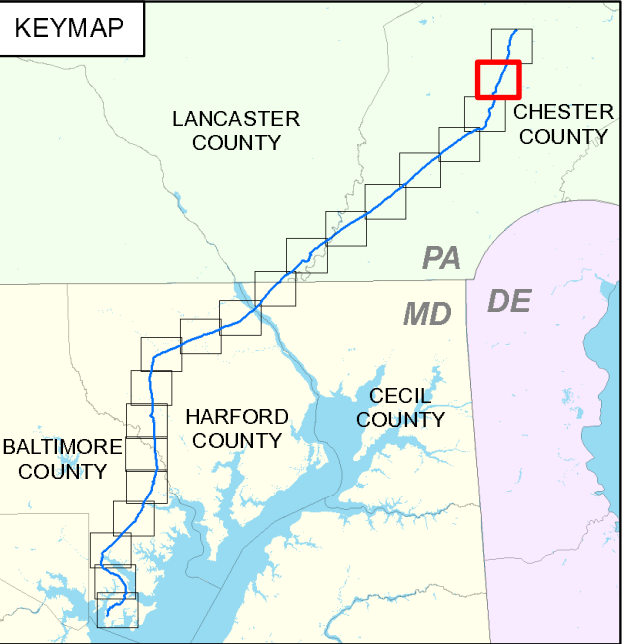
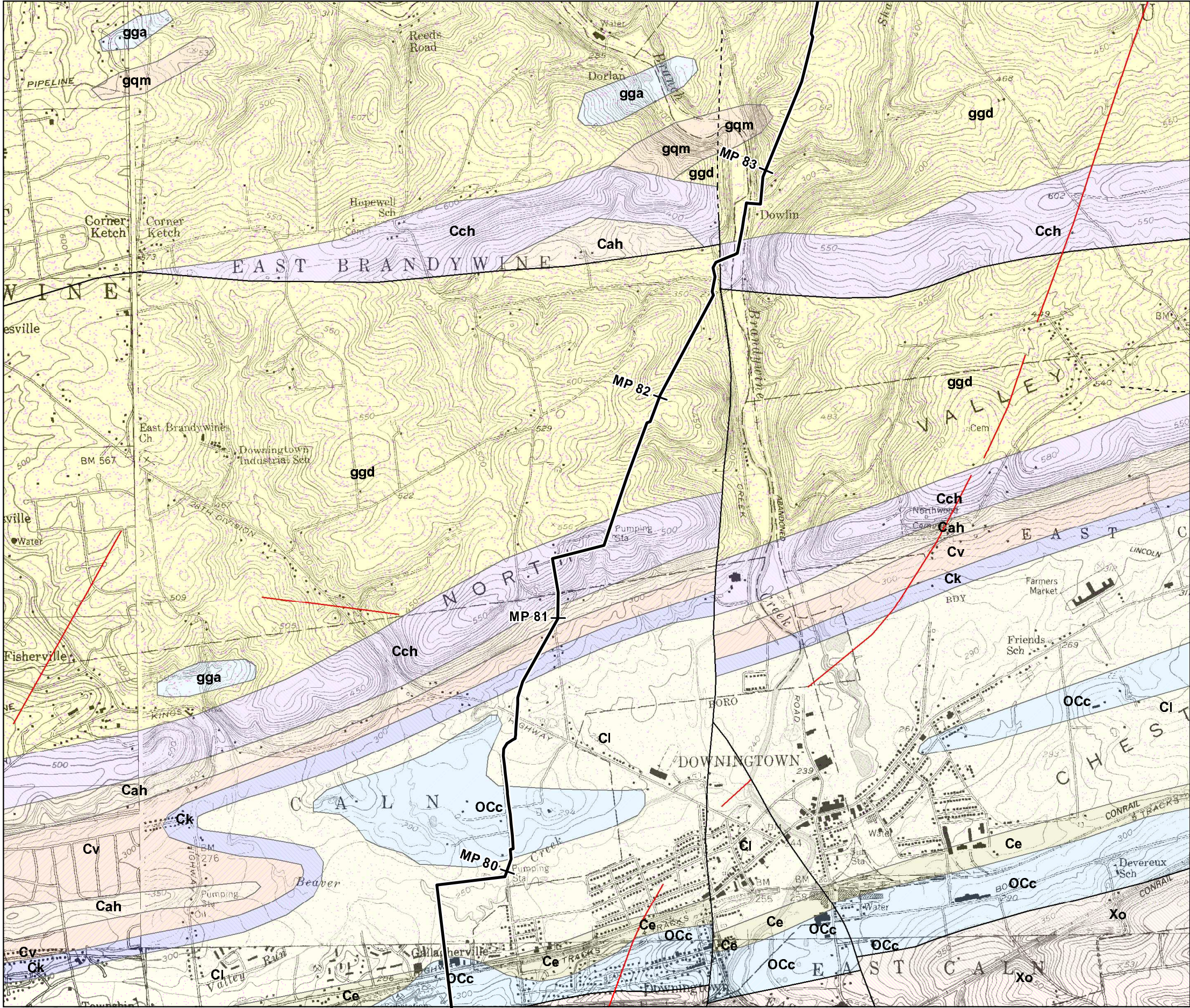
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EXPRESS PIPELINE AND SPARROWS
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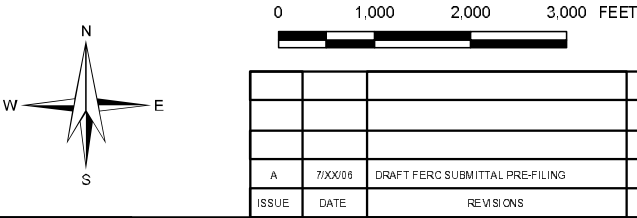
FIGURE 6.3-1



LEGEND

- MID-ATLANTIC EXPRESS PIPELINE
- MP 24 | MILEPOST MARKER

- NOTES:
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 - DATA DERIVED FROM:
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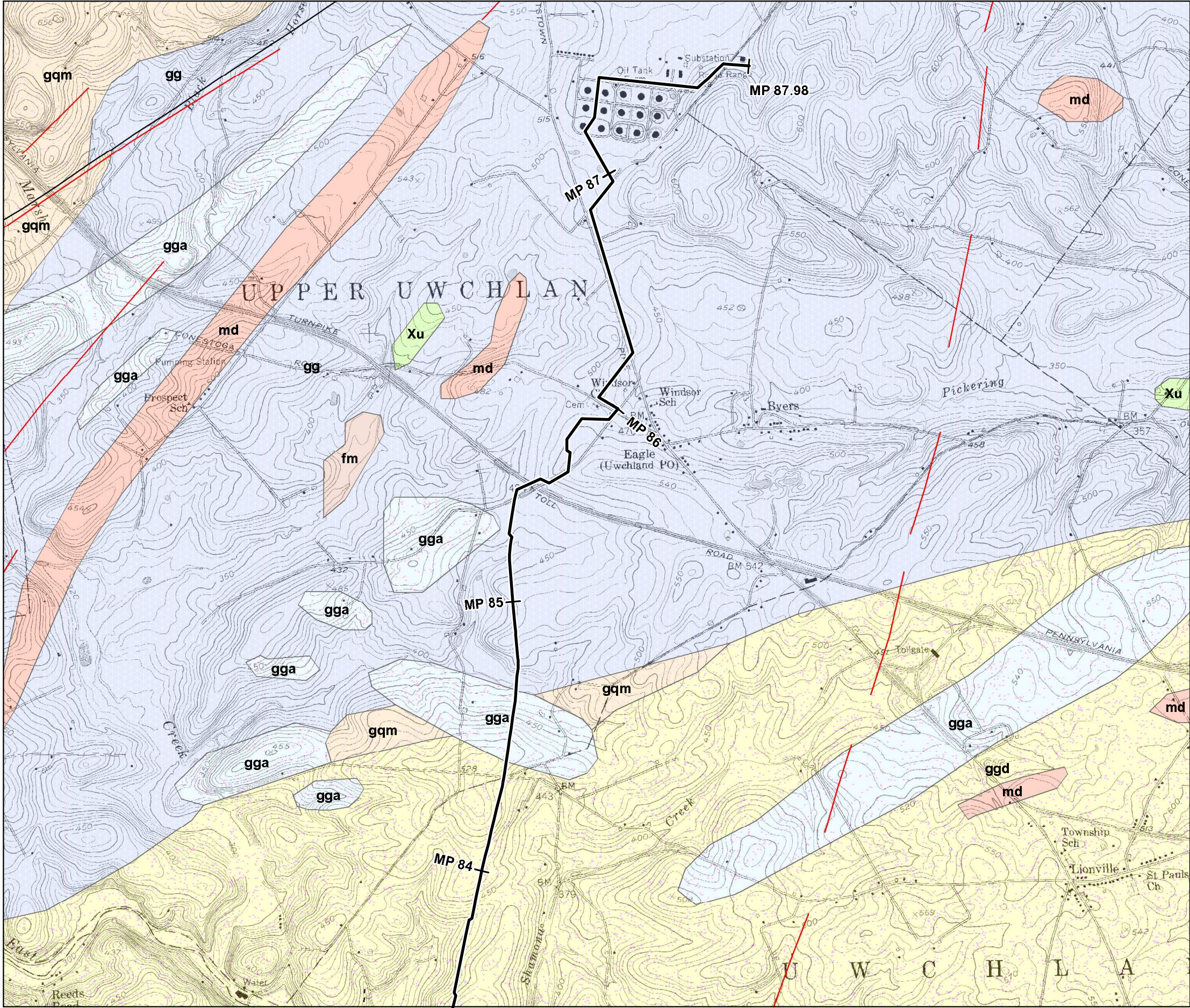
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BALTIMORE COUNTY, MD - CHESTER COUNTY, PA

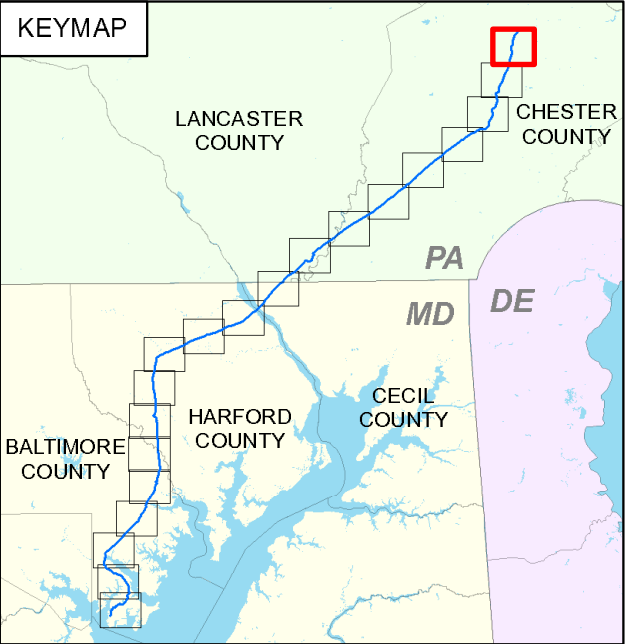
GEOLOGIC CONDITIONS - MID-ATLANTIC
EXPRESS PIPELINE AND SPARROWS
POINT LNG TERMINAL

SCALE: AS SHOWN
JULY 2006

FIGURE 6.3-1



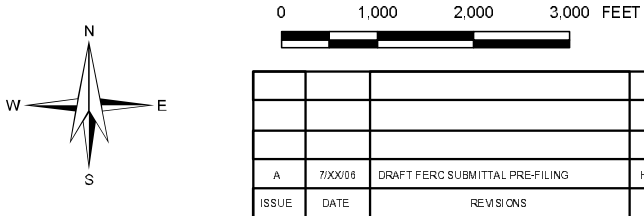
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LEGEND

- MID-ATLANTIC EXPRESS PIPELINE
- MP 24 | MILEPOST MARKER

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 - 2. DATA DERIVED FROM: GEOLOGIC MAP OF PENNSYLVANIA, BERG AND OTHERS, 1980.



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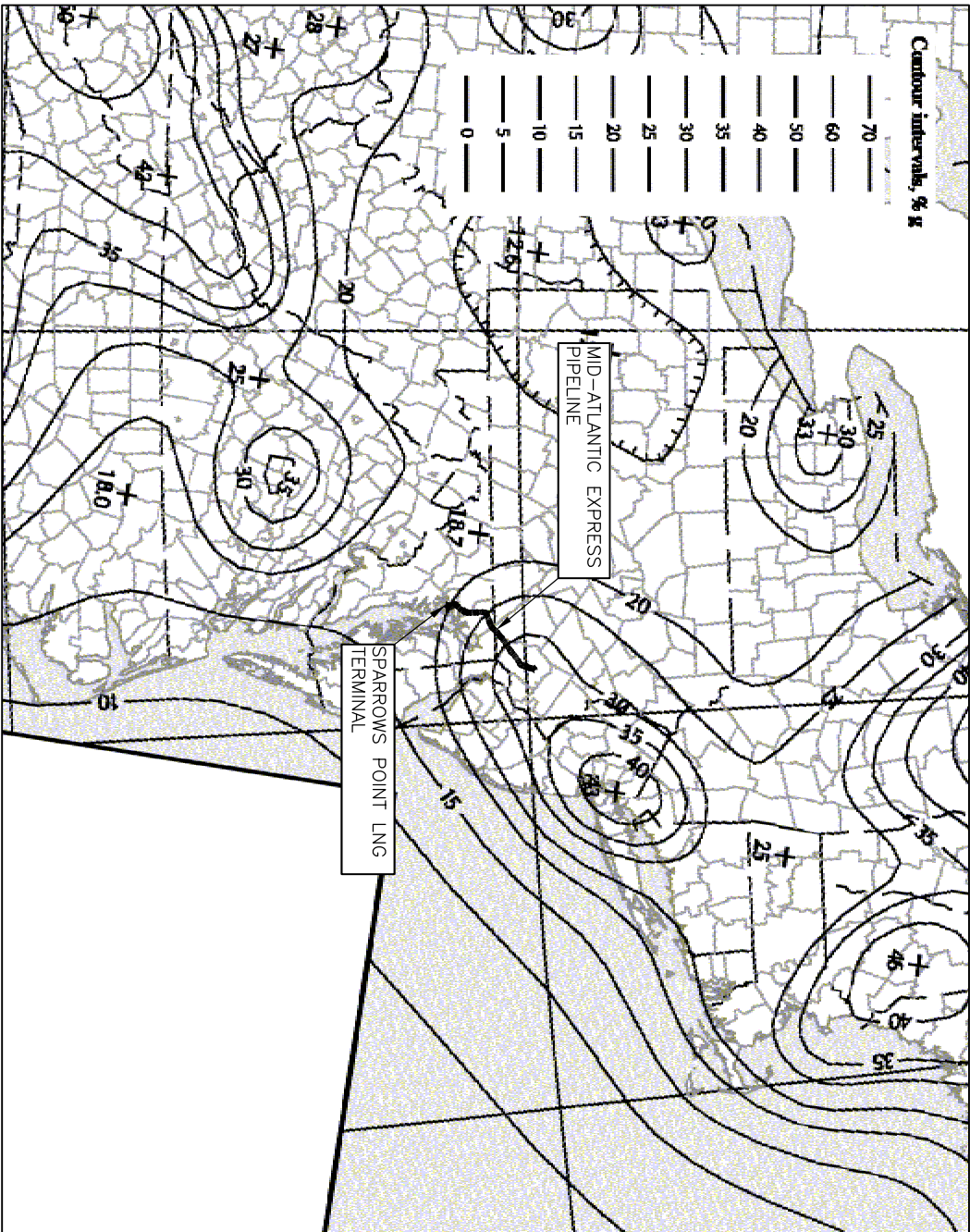
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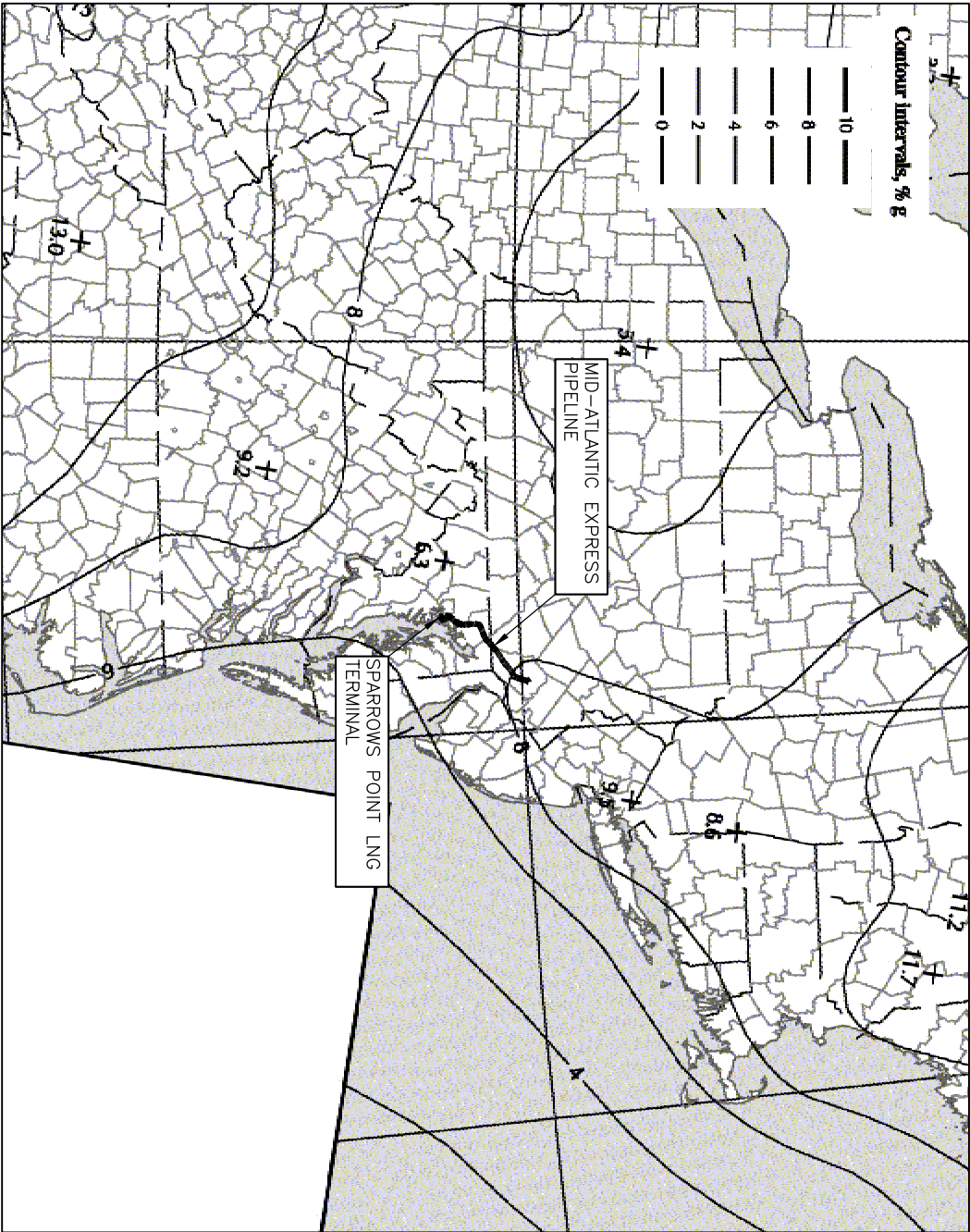
SCALE: AS SHOWN
JULY 2006

FIGURE 6.3-1

MAXIMUM CONSIDERED EARTHQUAKE GROUND MOTION FOR
THE CONTINUOUS UNITED STATES OF 0.2 SEC SPECTRAL RESPONSE
ACCELERATION (5% OF CRITICAL DAMPING), SITE CLASS B



MAXIMUM CONSIDERED EARTHQUAKE GROUND MOTION FOR
THE CONTINUOUS UNITED STATES OF 1.0 SEC SPECTRAL RESPONSE
ACCELERATION (5% OF CRITICAL DAMPING), SITE CLASS B



Note: contours are irregularly spaced

Areas with a constant spectral response acceleration of 0.05 g

Point value of spectral response acceleration expressed as a percent of gravity

Contours of spectral response acceleration expressed as a percent of gravity. Includes both in direction of decreasing values.

Note: contours are irregularly spaced

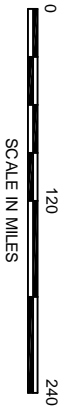
Areas with a constant spectral response acceleration of 0.05 g

Point value of spectral response acceleration expressed as a percent of gravity

Contours of spectral response acceleration expressed as a percent of gravity. Includes both in direction of decreasing values.

NOTES:

1. SOURCE: INTERNATIONAL CODE COUNCIL, 2003 INTERNATIONAL BUILDING CODE, FIGURES 1615(2) AND 1615(1).



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MID-ATLANTIC EXPRESS PIPELINE
BALTIMORE, MD -- CHESTER, PA

SEISMIC ZONE MAP - SPARROWS POINT
PROJECT

SCALE: AS SHOWN

AUG 2006

FIGURE 6.6-1